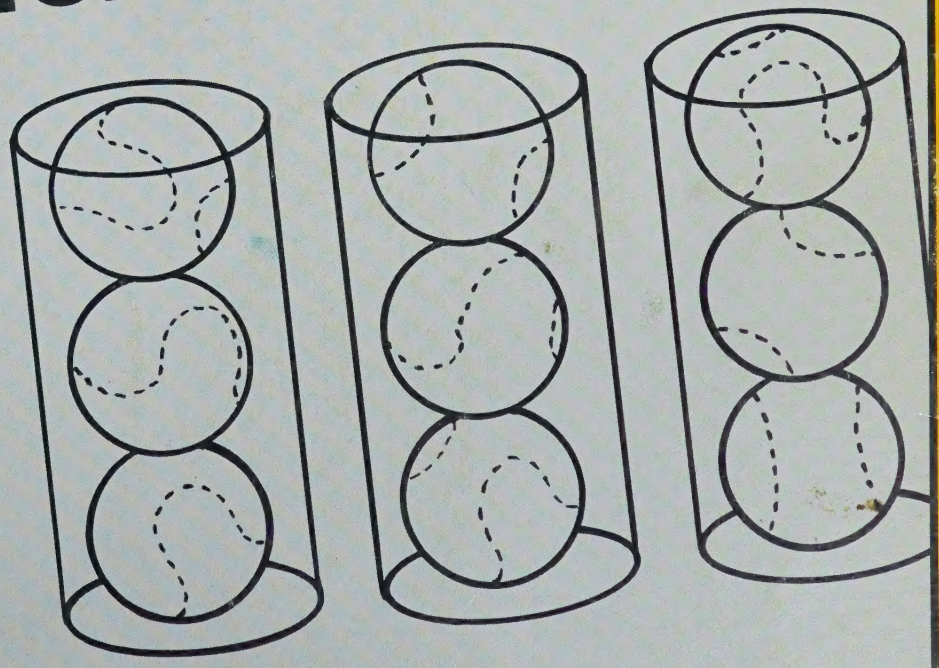
starting points in mathematics 4

Workbook

Teacher's Edition

4. 3 tennis balls to c
How many cans
tennis balls?



To the Teacher

This workbook is desi atics 4 *Revised*. For every uni it in the workbook. A tab showi ing of each workbook unit.

For almost every lesson n in the workbook. The lesson t ification. Each of these workbook corresponding textbook tice with the topics in the textbook. M of the required skills or concep , instructional, or evaluative pur

The workbook also incl units there is a full-page *Practice* t t. At the end of each unit there is a fu skills or solving word problems. ge *Practice* lessons on word problem

Students who are assign k lessons should be those who hav aterial in the textbook or those who c t, however, could profit from the rev er these lessons review unit topic or provide mixed-computation word problem sets.

This Teacher's Edition differs from the student's workbook in that it includes these notes and exercise answers in red.

The following illustrates the structure of a lesson that corresponds to a textbook lesson.

1 Lesson title
Matches title of corresponding textbook lesson

2 Code line
Textbook/Unit/Page

3 Diagnostic/instruction box

4 Completely-worked example

5 Partially-worked example

6 Decision exercises
Check students' understanding

7 Additional practice

NAME _____

② SPM4/U3/64-65

① **Subtraction, Regrouping with Zeros**

Subtract.

③

④ 2 9 9 10
1. 3000
2863
137

⑤ 4 9 10
2. 9500
3298

⑥
3. 4000
1374

4. 6030
3165

5. $7200
426

⑦

6. 6020
2199

7. 1020
586

8. 7000
1032

9. 8101
3717

10. $904
349

11. 8070
5524

12. 8005
4987

13. 502
374

14. 9030
5273

15. $3050
885

Continued on the inside of the back cover.

Workbook for

starting points in mathematics

Level 4

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Contents

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A B C D E F G • 08765432

NAME

SPM4/U1/4-5

Numbers to 999

Write the standard form for each.

hundreds	tens	ones	
1. 2	8	6	286
2. 3	0	9	309
3. 5	3	2	532

4. nine hundred four 904
5. four hundred seventy 470
6. eight hundred nineteen 819

What does the 6 mean in each numeral?

7. 651 6 hundreds
8. 867 6 tens
9. 346 6 ones

Write the standard form for each.

hundreds	tens	ones	
10. 7	1	5	715
11. 8	9	7	897
12. 5	2	7	527

13. three hundred six 306
14. six hundred twenty-eight 628
15. two hundred thirty 230

What does the 8 mean in each numeral?

16. 180 8 tens
17. 823 8 hundreds
18. 628 8 ones

SPM4/U1/6-7

Numbers to 9999

Write the standard form for each.

th	h	t	o	
1. 1	7	3	5	1735
2. 4	0	5	9	4059

3. one thousand four hundred ten 1410
4. two thousand sixty-eight 2068

What does the 5 mean in each numeral?

5. 7514 5 hundreds
6. 5920 5 thousands
7. 6852 5 tens

Write the standard form for each.

th	h	t	o	
8. 3	4	8	2	3482
9. 2	1	0	6	2106

10. four thousand nine hundred one 4901
11. six thousand seventy 6070
12. three thousand sixty-three 3063
13. five thousand five hundred twenty 5520

What does the 7 mean in each numeral?

14. 6071 7 tens
15. 7352 7 thousands
16. 4751 7 hundreds
17. 9837 7 ones

NAME

SPM4/U1/8-9

Expanded Form

Write the expanded form for each.

1. 2641 2000 + 600 + 40 + 1
2. 3406 3000 + 400 + 6
3. 8567 8000 + 500 + 60 + 7

Write the standard form for each.

4. 5000 + 400 + 9 5409
5. 7000 + 40 + 8 7048
6. 9000 + 100 + 70 9170

Write the expanded form for each.

7. 1982 1000 + 900 + 80 + 2
8. 3460 3000 + 400 + 60
9. 6057 6000 + 50 + 7
10. 5103 5000 + 100 + 3
11. 3005 3000 + 5
12. 4649 4000 + 600 + 40 + 9

Write the standard form for each.

13. 4000 + 50 + 7 4057
14. 6000 + 200 + 8 6208
15. 3000 + 80 3080
16. 8000 + 300 + 60 + 7 8367
17. 7000 + 200 + 40 7240
18. 9000 + 100 + 30 + 8 9138

SPM4/U1/12-13

Comparing and Ordering Numbers

Use > or < to make a true statement.

1. 5346 > 5254
2. 6457 > 6257
3. 7756 < 7765

List from least to greatest.

4. 6434, 4634, 4463, 6443 4463, 4634, 6434, 6443
5. 1620, 1062, 1602, 1026 1026, 1062, 1602, 1620
6. 7544, 7464, 7458, 7446 7446, 7458, 7464, 7544

Use > or < to make a true statement.

7. 6767 > 6677
8. 8201 < 8210
9. 7936 > 7846
10. 9102 > 9101
11. 4001 < 4010
12. 4477 < 4747

List from least to greatest.

13. 8798, 8788, 8797, 8897 8788, 8797, 8798, 8897
14. 5795, 5579, 5600, 5759 5579, 5600, 5759, 5795
15. 3124, 1344, 3144, 3142 1344, 3124, 3142, 3144
16. 8608, 8606, 8060, 6806 6806, 8060, 8606, 8608
17. 2522, 2552, 255, 2525 255, 2522, 2525, 2552
18. 6090, 6900, 6099, 6009 6009, 6090, 6099, 6900

NAME

SPM4/U1/14-15

Rounding

Round to the nearest ten.

1. 24 20
2. 57 60
3. 82 80
4. 45 50

Round to the nearest hundred.

5. 562 600
6. 712 700
7. 393 400
8. 250 300

Round to the nearest thousand.

9. 8300 8000
10. 1829 2000
11. 7362 7000
12. 1500 2000

Round to the nearest ten.

13. 18 20
14. 84 80
15. 315 320
16. 197 200

Round to the nearest hundred.

17. 381 400
18. 693 700
19. 2449 2400
20. 1486 1500

Round to the nearest thousand.

21. 8300 8000
22. 1721 2000
23. 5500 6000
24. 2932 3000

SPM4/U1/16-17

Ordinal Numbers

Write using numerals.

1. six hundred fourth 604th
2. four hundred sixtieth 460th
3. eight hundred twenty-first 821st

Write the words.

4. 291st two hundred ninety-first
5. 313th three hundred thirteenth
6. 829th eight hundred twenty-ninth

Write using numerals.

7. three hundred twentieth 320th
8. nine hundred sixty-sixth 966th
9. four hundred thirty-eighth 438th
10. two hundred twelfth 212th
11. five hundred seventy-second 572nd
12. one hundred third 103rd

Write the words.

13. 945th nine hundred forty-fifth
14. 818th eight hundred eighteenth
15. 190th one hundred ninetieth
16. 501st five hundred first

NAME

SPM4/U1/18-19

Numbers to 999 999

Write the standard form.

1. 83 thousand 526 83 526	2. 399 thousand 15 399 015
3. sixty thousand six hundred five 60 605	4. seven hundred twenty thousand 720 000
5. 400 000 + 20 000 + 400 420 400	6. 70 000 + 3 000 + 20 + 8 73 028

7. 118 thousand 118 000 8. 42 thousand 51 42 051 9. 262 thousand 110 262 110

10. five hundred eight thousand ten 508 010 11. two hundred thousand five 200 005

12. 100 000 + 6 000 + 200 + 5 106 205 13. 60 000 + 40 + 8 60 048

Write the words.

14. 32 800 thirty-two thousand eight hundred 15. 703 075 seven hundred three thousand seventy-five

What does the 7 mean in each numeral?

16. 127 614 7 thousands 17. 816 719 7 hundreds 18. 790 414 7 hundred thousands

SPM4/U1/20-21

Comparing and Ordering Numbers

Use > or < to make a true statement.

1. 527 533 _>_ 527 244 | 2. 612 667 _<_ 621 242 | 3. 64 259 _>_ 62 999

List from greatest to least.

4. 486 433, 48 888, 489 433, 499 433
499 433, 489 433, 486 433, 48 888

5. 84 829, 92 848, 94 809, 94 049
94 809, 94 049, 92 848, 84 829

Use > or < to make a true statement.

6. 968 753 _>_ 896 537 7. 699 705 _>_ 698 999 8. 854 499 _<_ 855 899

9. 56 889 _>_ 54 899 10. 576 616 _>_ 576 529 11. 471 222 _>_ 417 777

List from greatest to least.

12. 45 678, 46 578, 46 875, 46 857
46 875, 46 857, 46 578, 45 678

13. 91 222, 912 022, 91 021, 91 212
912 022, 91 222, 91 212, 91 021

14. 164 578, 16 475, 160 758, 164 597
164 597, 164 578, 160 758, 16 475

15. 328 634, 326 684, 328 464, 328 636
328 636, 328 634, 328 464, 326 684

NAME _____

Practice

Think of a place-value chart to help you answer these questions.

1. What does the 6 mean in 8654?
   6 hundreds
2. What does the 3 mean in 43 806?
   3 thousands
3. What does the 5 mean in 526 062?
   5 one hundred thousands
4. What does the 9 mean in 293 568?
   9 ten thousands

Write the standard form.

5. four hundred twenty-nine thousand one hundred sixty 429 160
6. seven hundred eight thousand 708 000
7. 2 thousands 3 tens 4 ones 2034
8. 300 000 + 5 000 + 70 + 5 305 075
9. 70 thousand 58 70 058

Write the expanded form.

10. 20 560 20 000 + 500 + 60
11. 709 300 700 000 + 9000 + 300

Write the words.

12. 38 380 thirty-eight thousand three hundred eighty
13. 470 074 four hundred seventy thousand seventy-four

Use > or < to make true statements.

14. 1918 _>_ 1891
15. 73 450 _>_ 73 054
16. 735 537 _<_ 753 357

List from least to greatest.

17. 2338, 2383, 2838, 2333
    2333, 2338, 2383, 2838
18. 140 705, 14 750, 14 075, 14 705
    14 075, 14 705, 14 750, 140 705

List from greatest to least.

19. 4636, 4463, 4626, 4632
    4636, 4632, 4626, 4463
20. 769 649, 796 497, 790 904, 796 967
    796 967, 796 497, 790 904, 769 649

Round to the nearest ten.

21. 67 70
22. 3652 3650
23. 495 500

Round to the nearest hundred.

24. 815 800
25. 2748 2700
26. 49 350 49 400

Round to the nearest thousand.

27. 7600 8000
28. 14 450 14 000
29. 260 725 261 000

NAME

SPM4/U1/22-23

Roman Numerals

Write the standard form.

1. IX 9	2. XVI 16	3. XXIV 24

Write the Roman numeral.

4. 50 L	5. 94 XCIV	6. 59 LIX

Write the standard form.

7. XLV 45	8. VIII 8	9. XIII 13	10. LIX 59
11. LXXI 71	12. XC 90	13. LXXXVI 86	14. XXXVIII 38
15. LII 52	16. XCIX 99	17. XLVII 47	18. LXIV 64

Write the Roman numeral.

19. 14 XIV	20. 29 XXIX	21. 49 XLIX	22. 56 LVI
23. 67 LXVII	24. 78 LXXVIII	25. 85 LXXXV	26. 9 IX

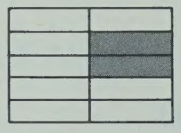
SPM4/U1/24-25

Fractions for Part of a Whole

Write a fraction to show how much is shaded.

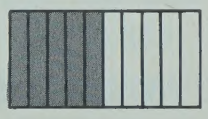
1.  $\frac{1}{2}$

2.  $\frac{1}{4}$

3.  $\frac{2}{10}$

4.  $\frac{9}{10}$

5.  $\frac{1}{5}$

6.  $\frac{5}{10}$

7.  $\frac{3}{4}$

8.  $\frac{1}{3}$

For each fraction, draw a picture. Show equal parts. Then shade to show the fraction.

Pictures will vary.

9. $\frac{7}{10}$ 7 of ten equal parts should be shaded.

10. $\frac{3}{5}$ 3 of 5 equal parts should be shaded.

11. $\frac{2}{4}$ 2 of 4 equal parts should be shaded.

12. $\frac{4}{5}$ 4 of 5 equal parts should be shaded.

13. $\frac{1}{2}$ 1 of 2 equal parts should be shaded.

14. $\frac{2}{5}$ 2 of 5 equal parts should be shaded.

15. $\frac{2}{3}$ 2 of 3 equal parts should be shaded.

16. $\frac{3}{10}$ 3 of 10 equal parts should be shaded.

NAME

Fractions for Part of a Set

Write a fraction to answer the question.

1. What fraction of the shapes are circles?

$\frac{2}{3}$

2. What fraction of the faces are smiling?

$\frac{4}{5}$

3. What fraction of the clowns have no hats?

$\frac{2}{4}$

4. What fraction of the bulbs are lit?

$\frac{3}{10}$

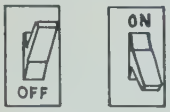
5. What fraction of the flowers have stems?

$\frac{1}{3}$

6. What fraction of the apples have leaves?

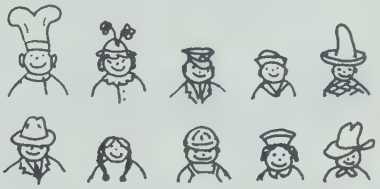
$\frac{3}{4}$

7. What fraction of the switches are "on"?



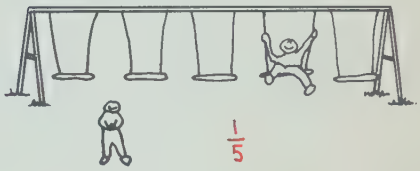
$\frac{1}{2}$

8. What fraction of the people have hats?



$\frac{9}{10}$

9. What fraction of the swings have children?



$\frac{1}{5}$

Draw a picture to show the fraction. Pictures will vary.

10. a group of faces, $\frac{2}{3}$ of which are happy

11. a group of stems, $\frac{3}{5}$ of which have flowers

12. a group of eggs, $\frac{1}{4}$ of which are cracked

13. a group of sticks, $\frac{7}{10}$ of which are straight

14. a group of people, $\frac{1}{2}$ of whom wear glasses

15. a group of shapes, $\frac{3}{5}$ of which are squares

NAME

Fractions Greater Than 1

Write a fraction to answer the question.

1. How many apples?

$3\frac{1}{2}$

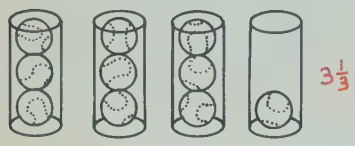
2. How many pairs of skates?

$2\frac{1}{2}$

3. 10 cookies to a box. How many boxes of cookies?

$1\frac{2}{10}$

4. 3 tennis balls to a can. How many cans of tennis balls?



$3\frac{1}{3}$

5. How many glasses of juice?

$1\frac{2}{3}$

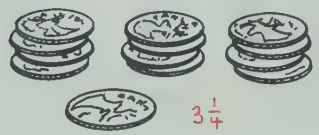
6. 5 pens to a box. How many boxes of pens?

$1\frac{1}{5}$

7. How many oranges?

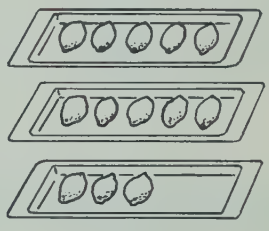
$4\frac{1}{2}$

8. 4 quarters to a stack. How many stacks of quarters?



$3\frac{1}{4}$

9. 5 limes to a tray. How many trays of limes?



$2\frac{3}{5}$

Draw a picture to show the amount. Pictures will vary.

10. $1\frac{1}{2}$ pairs of sneakers

11. $2\frac{1}{4}$ sandwiches

12. 10 markers to a box

$5\frac{3}{10}$ boxes

13. $2\frac{2}{3}$ bananas

14. $1\frac{4}{5}$ barrels of rainwater

15. 4 players to a team.

$3\frac{3}{4}$ teams

NAME _____

Addition - Skills Warmup

Add.

1. 2 + 3 = 5	2. 6 + 0 = 6	3. 1 + 5 = 6	4. 4 + 2 = 6	5. 3 + 4 = 7	6. 0 + 7 = 7
7. 9 + 2 = 11	8. 5 + 7 = 12	9. 8 + 6 = 14	10. 7 + 3 = 10	11. 7 + 9 = 16	12. 3 + 8 = 11
13. 4 + 7 = 11	14. 5 + 9 = 14	15. 8 + 8 = 16	16. 6 + 4 = 10	17. 9 + 3 = 12	18. 8 + 5 = 13

19. 7 + 6 = 13 20. 8 + 2 = 10 21. 9 + 8 = 17 22. 6 + 5 = 11

23. 4 + 9 = 13 24. 8 + 7 = 15 25. 9 + 6 = 15 26. 4 + 8 = 12

Subtraction - Skills Warmup

Subtract.

1. 8 − 7 = 1	2. 6 − 2 = 4	3. 4 − 4 = 0	4. 3 − 1 = 2	5. 9 − 3 = 6	6. 3 − 0 = 3
7. 13 − 9 = 4	8. 11 − 5 = 6	9. 15 − 7 = 8	10. 18 − 9 = 9	11. 12 − 3 = 9	12. 11 − 7 = 4
13. 10 − 9 = 1	14. 10 − 3 = 7	15. 12 − 8 = 4	16. 14 − 9 = 5	17. 17 − 8 = 9	18. 11 − 8 = 3

19. 10 − 4 = 6 20. 13 − 6 = 7 21. 14 − 7 = 7 22. 16 − 9 = 7

23. 15 − 6 = 9 24. 13 − 5 = 8 25. 12 − 7 = 5 26. 14 − 6 = 8

NAME

SPM4/U2/32-33

Addition, Basic Facts

Add.

1. $\begin{array}{r} 7 \\ 5 \\ \hline 12 \end{array}$

2. $\begin{array}{r} 3 \\ 8 \\ \hline 11 \end{array}$

3. $\begin{array}{r} 8 \\ 7 \\ \hline 15 \end{array}$

4. $2 + 5 = 7$

5. $7 + 9 = 16$

6. $\begin{array}{r} 5 \\ 3 \\ \hline 8 \end{array}$

7. $\begin{array}{r} 2 \\ 7 \\ \hline 9 \end{array}$

8. $\begin{array}{r} 6 \\ 4 \\ \hline 10 \end{array}$

9. $\begin{array}{r} 8 \\ 9 \\ \hline 17 \end{array}$

10. $\begin{array}{r} 6 \\ 8 \\ \hline 14 \end{array}$

11. $\begin{array}{r} 7 \\ 3 \\ \hline 10 \end{array}$

12. $\begin{array}{r} 4 \\ 9 \\ \hline 13 \end{array}$

13. $\begin{array}{r} 8 \\ 8 \\ \hline 16 \end{array}$

14. $\begin{array}{r} 9 \\ 6 \\ \hline 15 \end{array}$

15. $\begin{array}{r} 7 \\ 6 \\ \hline 13 \end{array}$

16. $\begin{array}{r} 6 \\ 5 \\ \hline 11 \end{array}$

17. $\begin{array}{r} 4 \\ 8 \\ \hline 12 \end{array}$

18. $3 + 6 = 9$

19. $4 + 4 = 8$

20. $8 + 5 = 13$

21. $2 + 9 = 11$

22. $7 + 7 = 14$

23. $8 + 2 = 10$

24. $0 + 9 = 9$

25. $9 + 5 = 14$

SPM4/U2/34-35

Addition, Regrouping Ones

Add.

1. $\begin{array}{r} {\scriptstyle 1} \\ 45 \\ 37 \\ \hline 82 \end{array}$

2. $\begin{array}{r} {\scriptstyle 1} \\ 24 \\ 69 \\ \hline 93 \end{array}$

3. $\begin{array}{r} 18 \\ 62 \\ \hline 80 \end{array}$

4. $26 + 36 = 62$

5. $\begin{array}{r} 58 \\ 23 \\ \hline 81 \end{array}$

6. $\begin{array}{r} 49 \\ 35 \\ \hline 84 \end{array}$

7. $\begin{array}{r} 65 \\ 28 \\ \hline 93 \end{array}$

8. $\begin{array}{r} 26 \\ 45 \\ \hline 71 \end{array}$

9. $\begin{array}{r} 47 \\ 26 \\ \hline 73 \end{array}$

10. $\begin{array}{r} 55 \\ 36 \\ \hline 91 \end{array}$

11. $\begin{array}{r} 16 \\ 49 \\ \hline 65 \end{array}$

12. $\begin{array}{r} 48 \\ 47 \\ \hline 95 \end{array}$

13. $\begin{array}{r} 34 \\ 18 \\ \hline 52 \end{array}$

14. $\begin{array}{r} 33 \\ 19 \\ \hline 52 \end{array}$

15. $45 + 49 = 94$

16. $22 + 19 = 41$

17. $37 + 38 = 75$

18. $57 + 34 = 91$

NAME

SPM4/U2/38-39

Addition, Regrouping Ones, Tens, or Hundreds

Add.

1. 271 + 356 = 627	2. 165 + 329 = 494	3. 325 + 84 = 409	4. 2854 + 138 = 2992	5. 4824 + 1964 = 6788
6. 363 + 254 = 617	7. 457 + 72 = 529	8. 1537 + 59 = 1596	9. 436 + 236 = 672	10. 2612 + 2871 = 5483
11. 181 + 175 = 356	12. 6941 + 1234 = 8175	13. 377 + 181 = 558	14. 228 + 455 = 683	15. 416 + 243 = 659
16. 5320 + 1879 = 7199	17. 6053 + 2082 = 8135	18. 129 + 146 = 275	19. 5024 + 2759 = 7783	20. 1490 + 2193 = 3683

SPM4/U2/40-41

Addition, Two or More Regroupings

Add.

1. 4398 + 2567 = 6965	2. 3528 + 4739 = 8267	3. 8437 + 1167 = 9604	4. 1629 + 2578 = 4207
5. 1525 + 4482 = 6007	6. 3289 + 3669 = 6958	7. 2637 + 5628 = 8265	8. 1574 + 1564 = 3138	9. 2149 + 1785 = 3934
10. 3648 + 1475 = 5123	11. 2468 + 2098 = 4566	12. 5645 + 1839 = 7484	13. 6784 + 2549 = 9333	14. 218 + 493 = 711
15. 187 + 5629 = 5816	16. 5576 + 2647 = 8223	17. 3932 + 1489 = 5421		

NAME _____

Practice

Add.

1. 7 + 9 = 16
2. 56 + 31 = 87
3. 438 + 120 = 558
4. 23 + 74 = 97
5. 23 + 59 = 82
6. 164 + 72 = 236
7. 636 + 2612 = 3248
8. 1459 + 1713 = 3172
9. 456 + 761 = 1217
10. 0 + 7 = 7
11. 754 + 878 = 1632
12. 803 + 519 = 1322
13. 1486 + 819 = 2305
14. 8416 + 792 = 9208
15. 697 + 3178 = 3875
16. 2705 + 486 = 3191

Solve. Show your work.

17. In an experiment, one beetle trap caught 78 beetles. Another caught 93. How many beetles did the two traps catch? 171

18. The car show had 9 new models and 8 antiques. How many cars were in the show? 17

19. Calgary sent 103 persons to the convention. Edmonton sent 98. Together, how many did the two cities send? 201

20. 367 of the train passengers were going to Halifax. 195 were going to Dartmouth. How many were going to the two cities in all? 562

21. The farm produced 2875 muskmelons and 4195 honeydew melons. How many melons did it produce in all? 7070

22. The farmer sold the wheat crop for $3550 and the oat crop for $5875. For how much did the farmer sell the two crops in all? $9425

NAME _____

Adding Three Numbers

Add.

1. 2 1 1 812 3564 2934 7310	2. 1 1 1 618 5074 973 6665	3. 4238 1934 829 7001	4. 379 + 4649 + 321 5349

5. 758 6433 524 7715	6. 5276 204 2985 8465	7. 4321 226 1357 5904	8. 3819 1257 4515 9591	9. 7682 1205 627 9514
10. 352 2258 2481 5091	11. 961 4282 2118 7361	12. 3249 1143 2668 7060	13. 698 715 2947 4360	14. 4645 321 736 5702

15. 357 + 6086 + 34
6477

16. 348 + 2858 + 4571
7777

Practice

Solve. Show your work.

1. The farmer baled hay in three fields. One field gave 755 bales of hay. Another gave 862 bales. The third gave 516 bales. How many bales were there in all? 2133

2. The counter on one turnstile showed 485. On the other turnstile, the counter showed 752. How many is this in all? 1237

3. The car-carrier carried one car of 980 kg, another of 1084 kg, and a third of 1116 kg. How heavy were the three cars in all? 3180 kg

4. In one day, the livestock broker bought 2000 cattle, 3500 hogs, and 700 sheep. How many head of livestock did the broker buy that day? 6200

NAME

SPM4/U2/46-47

Estimating the Sum

First round and add to estimate the sum. Then find the exact sum.

1. 1 1 1 — Estimate first.

8256	8300
572	600
538	500
9366	9400

Then add.

2. 1 1 2 — Estimate first.

1568	2000
2895	3000
1427	1000
5890	6000

Then add.

3. 6789 + 362 + 801

7952

4. 4378
645
706
5729

5. 3859
734
89
4682

6. $2334
4258
1769
$8361

7. 493
858
2105
3456

8. 3044
277
4086
7407

9. $813
732
660
$2205

10. 1600
398
574
2572

11. 7156
550
1232
8938

12. $2330
1895
2916
$7141

13. 2789 + 752 + 903

4444

14. 824 + 778 + 624

2226

15. 2321 + 512 + 167

3000

16. 178 + 256 + 538

972

17. 109 + 378 + 325

812

18. 4025 + 1616 + 1396

7037

NAME _____

Practice

Add.

1. 45 34 79	2. 36 52 88	3. 314 73 387	4. 182 615 797	5. 2427 1521 3948
6. 34 27 61	7. 18 24 42	8. 532 328 860	9. 139 44 183	10. 605 179 784
11. 484 62 546	12. 463 463 926	13. 2907 1342 4249	14. 3231 1688 4919	15. 1826 5333 7159
16. 569 257 826	17. 195 426 621	18. 173 389 562	19. 2144 916 3060	20. 3280 3728 7008
21. 6066 594 6660	22. 2479 2851 5330	23. 5739 2468 8207	24. 5927 1593 7520	25. 4836 2878 7714
26. 34 69 22 125	27. 357 28 180 565	28. 457 246 68 771	29. 4185 389 465 5039	30. 1587 3909 2568 8064

Solve. Show your work.

31. Mr. Griggs paid $3585 for a used car and $5578 for a used truck. How much did he pay in all? $9163

32. In the video game, Shirley had scores of 2850, 3980, and 3730. What was her total score? 10 560

33. The newstand sold 148 copies of the Sun and 195 copies of the Star. How many papers did it sell in all? 343

34. The mail room processed 576 envelopes and 67 packages one day. How many items did it process in all? 643

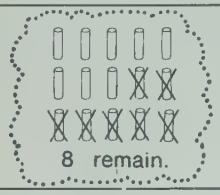
NAME

SPM4/U3/52-53

Subtraction, Basic Facts

Subtract.

1. $\begin{array}{r} 15 \\ -\ 7 \\ \hline 8 \end{array}$



2. $\begin{array}{r} 11 \\ -\ 5 \\ \hline 6 \end{array}$

3. $\begin{array}{r} 12 \\ -\ 8 \\ \hline 4 \end{array}$

4. 12 − 5 7

5. 10 − 7 3

6. $\begin{array}{r} 8 \\ -\ 3 \\ \hline 5 \end{array}$

7. $\begin{array}{r} 10 \\ -\ 1 \\ \hline 9 \end{array}$

8. $\begin{array}{r} 13 \\ -\ 6 \\ \hline 7 \end{array}$

9. $\begin{array}{r} 17 \\ -\ 8 \\ \hline 9 \end{array}$

10. $\begin{array}{r} 16 \\ -\ 9 \\ \hline 7 \end{array}$

11. $\begin{array}{r} 18 \\ -\ 9 \\ \hline 9 \end{array}$

12. $\begin{array}{r} 8 \\ -\ 6 \\ \hline 2 \end{array}$

13. $\begin{array}{r} 12 \\ -\ 3 \\ \hline 9 \end{array}$

14. $\begin{array}{r} 12 \\ -\ 6 \\ \hline 6 \end{array}$

15. $\begin{array}{r} 13 \\ -\ 9 \\ \hline 4 \end{array}$

16. $\begin{array}{r} 14 \\ -\ 5 \\ \hline 9 \end{array}$

17. $\begin{array}{r} 14 \\ -\ 8 \\ \hline 6 \end{array}$

18. 9 − 6 3

19. 11 − 7 4

20. 16 − 8 8

21. 10 − 4 6

22. 13 − 8 5

23. 10 − 5 5

24. 11 − 8 3

25. 15 − 9 6

SPM4/U3/54-55

Subtraction, Regrouping Tens

Subtract.

1. $\begin{array}{r} {\scriptstyle 7\ 16}\not{8}\not{0} \\ -\ 27 \\ \hline 59 \end{array}$

2. $\begin{array}{r} {\scriptstyle 6\ 18}\not{7}\not{8} \\ -\ 49 \\ \hline 29 \end{array}$

3. $\begin{array}{r} 57 \\ -\ 38 \\ \hline 19 \end{array}$

4. $\begin{array}{r} 60 \\ -\ 29 \\ \hline 31 \end{array}$

5. 84 − 17 67

6. $\begin{array}{r} 80 \\ -\ 38 \\ \hline 42 \end{array}$

7. $\begin{array}{r} 82 \\ -\ 57 \\ \hline 25 \end{array}$

8. $\begin{array}{r} 71 \\ -\ 25 \\ \hline 46 \end{array}$

9. $\begin{array}{r} 52 \\ -\ 14 \\ \hline 38 \end{array}$

10. $\begin{array}{r} 60 \\ -\ 33 \\ \hline 27 \end{array}$

11. $\begin{array}{r} 81 \\ -\ 49 \\ \hline 32 \end{array}$

12. $\begin{array}{r} 58 \\ -\ 42 \\ \hline 16 \end{array}$

13. $\begin{array}{r} 73 \\ -\ 34 \\ \hline 39 \end{array}$

14. $\begin{array}{r} 55 \\ -\ 27 \\ \hline 28 \end{array}$

15. $\begin{array}{r} 93 \\ -\ 45 \\ \hline 48 \end{array}$

16. 42 − 29 13

17. 91 − 34 57

18. 81 − 68 13

NAME

SPM4/U3/58-59

Subtraction, Regrouping Tens, Hundreds, or Thousands

Subtract.

1. 7358 − 3616 = 3742	2. 4537 − 2046 = 2491	3. 6449 − 2731 = 3718	4. 865 − 372 = 493	5. 7066 − 5242 = 1824
6. 350 − 135 = 215	7. 3618 − 241 = 3377	8. 8273 − 7312 = 961	9. 7094 − 6721 = 373	10. 349 − 153 = 196
11. 7855 − 583 = 7272	12. 991 − 736 = 255	13. 6228 − 4907 = 1321	14. 5939 − 5489 = 450	15. 5041 − 2440 = 2601

SPM4/U3/60-61

Subtraction, Two or More Regroupings

Subtract.

1. 3236 − 468 = 2768	2. 6783 − 4892 = 1891	3. 6474 − 3546 = 2928	4. 8246 − 6169 = 2077	5. 6180 − 1284 = 4896
6. 1060 − 729 = 331	7. 9616 − 3852 = 5764	8. 8382 − 5934 = 2448	9. 877 − 298 = 579	10. $1420 − 175 = $1245
11. 9221 − 689 = 8532	12. 5347 − 574 = 4773	13. 5374 − 3538 = 1836	14. 5642 − 1773 = 3869	15. $9408 − 1432 = $7976
16. 8495 − 1956 = 6539	17. 647 − 589 = 58	18. 7263 − 373 = 6890	19. 7104 − 1162 = 5942	20. $722 − 527 = $195

NAME _____

Practice

Perform the indicated operation .

1. $\begin{array}{r} 63 \\ -21 \\ \hline 42 \end{array}$

2. $\begin{array}{r} 69 \\ +48 \\ \hline 117 \end{array}$

3. $\begin{array}{r} 613 \\ -175 \\ \hline 438 \end{array}$

4. $\begin{array}{r} \$657 \\ +179 \\ \hline \$836 \end{array}$

5. $\begin{array}{r} 3406 \\ -1278 \\ \hline 2128 \end{array}$

6. $\begin{array}{r} 74 \\ 291 \\ +336 \\ \hline 701 \end{array}$

7. $\begin{array}{r} 493 \\ -228 \\ \hline 265 \end{array}$

8. $\begin{array}{r} 4112 \\ -1739 \\ \hline 2373 \end{array}$

9. $\begin{array}{r} 305 \\ 621 \\ +717 \\ \hline 1643 \end{array}$

10. $\begin{array}{r} \$148 \\ -\ 79 \\ \hline \$69 \end{array}$

11. $2072 - 1865 = 207$

12. $421 + 79 + 164 = 664$

13. $\$227 - \$15 = \$212$

14. $300 - 163 = 137$

15. $\$421 + \$43 + \$809 = \$1273$

16. $7324 - 3865 = 3459$

Solve. Show your work.

17. The base price for the new car is $7350. Total cost for the extra features is $2275. What is the price of the new car with the extra features? $9625

18. Laurence filled the tank with 1350 L of water. During the night 285 L leaked out. How much was left? 1065 L

19. The clinic treated 715 patients in November. Last November, it treated 478 patients . How many more patients were treated this November? 237

20. Marie-Louise saved $135 last year and $85 so far this year. She hopes to save $90 more this year. If she does, how much will she have saved altogether? $310

21. The fishing boat brought in 1750 kg of fish. By nightfall 688 kg had been sold. How much remained? 1062 kg

22. The new census shows that the town has grown by a total of 568 people. It used to have 4777 people. Now how many does it have? 5345

NAME

Subtraction, Regrouping with Zeros

Subtract.

1. 2 9 9 10 ~~3000~~ 2863 137	2. 4 9 10 ~~9500~~ 3298 6202	3. 4000 1374 2626	4. 6030 3165 2865	5. $7200 426 $6774
6. 6020 2199 3821	7. 1020 586 434	8. 7000 1032 5968	9. 8101 3717 4384	10. $904 349 $555
11. 8070 5524 2546	12. 8005 4987 3018	13. 502 374 128	14. 9030 5273 3757	15. $3050 885 $2165
16. $602 405 $197	17. 9201 2365 6836	18. 8000 410 7590	19. $8013 2987 $5026	20. $6008 516 $5492

Practice

Solve. Show your work.

1. Indira is sorting the slides she has taken on her travels. She has a total of 1200 slides. 480 of these are from India. How many others does she have? 720

2. The Shoe Store receives a shipment of shoes. 160 pairs are for girls. 132 pairs are for boys. 88 pairs are for adults. How many pairs did The Shoe Store receive? 380

3. The clinic checked 308 children for eye problems. 283 passed the test. How many showed eye problems? 25

4. Mrs. Taylor bought a television set for $273, a table for $89, and a lamp for $56. Altogether, how much did she spend? $418

5. The bulb was supposed to burn for at least 2000 h. It burned out after 775 h of use. How many hours fewer than 2000 is this? 1225

6. Tuition for school is $3000. Jed has already paid $275. How much does he still owe? $2725

NAME

SPM4/U3/66-67

Using Addition to Check Subtraction

Subtract. Add to check.

1. 934 − 578 = 356 (12, 8, 14) Check: 356 + 578 = 934 (1 1) ✓	2. 405 − 261 = 144 (3, 10) Check: 144 + 261 = 405 ✓	3. $661 − 475 = $186	4. 82 − 25 = 57
5. 923 − 289 = 634	6. 77 − 31 = 46	7. 1036 − 581 = 455	8. $7393 − 4514 = $2879
9. 601 − 269 = 332	10. 9000 − 6979 = 2021	11. 867 − 354 = 513	12. $8685 − 7243 = $1442
13. 921 − 23 = 898	14. 101 − 34 = 67	15. $5000 − 2825 = $2175	16. 747 − 368 = 379

SPM4/U3/71

Addition and Subtraction Together

Perform the indicated operations. Work inside the parentheses first.
Show your work on other paper.

1. (732 − 345) + 232 = 619 (12, 6, 12; 1) 732 − 345 = 387; 387 + 232 = 619	2. 732 − (345 + 232) = 155 345 + 232
3. (5845 − 4963) − 351 = 531	4. 5845 − (4963 + 351) = 531
5. (723 − 622) + 42 = 143	6. 723 − (622 + 42) = 59
7. 723 − (622 − 42) = 143	8. 6946 − (4925 − 1147) = 3168
9. (6946 − 4925) − 1147 = 874	10. (6946 − 4925) + 1147 = 3168

NAME _____

Practice

Perform the indicated operation.

1. $421 + 187 = 608$

2. $703 - 219 = 484$

3. $\$421 + 657 + 273 = \$1351$

4. $650 + 729 + 333 = 1712$

5. $1700 - 848 = 852$

6. $74 + 86 = 160$

7. $2001 - 485 = 1516$

8. $8807 + 994 = 9801$

9. $304 - 37 = 267$

10. $101 - 16 = 85$

11. $(27 - 13) + 51 = 65$

12. $160 - (90 + 60) = 10$

13. $1495 + (2700 - 1895) = 2300$

14. $\$451 + \$360 + \$83 = \$894$

15. $471 - (286 - 147) = 332$

16. $488 + 376 + 542 = 1406$

Solve. Show your work.

17. Department A is allowed $8000 for expenses. So far, it has spent $3705. How much more can Department A spend? $\$4295$

18. The large tank holds 2210 L of corn oil. The small tank holds 1745 L. In all, how much corn oil do the two tanks hold? 3955 L

19. Tahir collects precious gems. He has 178 rubies, 275 emeralds, and 315 opals. Altogether, how many gems does he have? 768

20. The town issued 304 dog licences this year. Last year, it issued 287. How many more did it issue this year? 17

21. 2146 sheep on the ranch were rounded up for shearing. So far, only 750 have been shorn. How many are left to shear? 1396

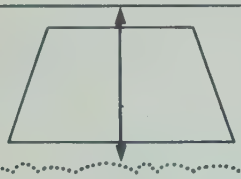
22. The votes are in. There are 480 for Mr. Smith, 476 for Mr. Chen, and 509 for Mrs. Hindo. What is the total number of votes that were cast? 1465

NAME

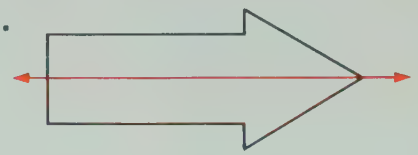
SPM4/U4/74-75

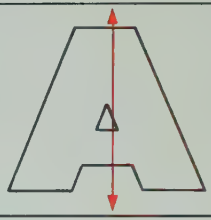
Line Symmetry

Draw a line of symmetry.

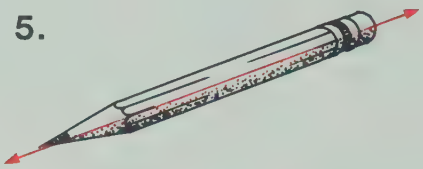
1. 

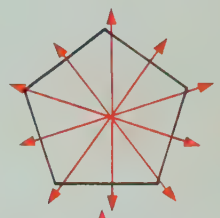
The two sides are alike.

2. 

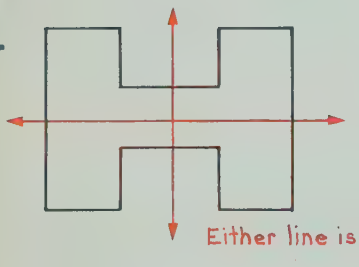
3. 

4. 

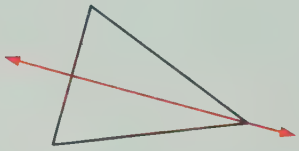
5. 

6. 

Any of the 5 lines is acceptable.

7. 

Either line is acceptable.

8. 

9. 

Any of the 4 lines is acceptable.

SPM4/U4/76-77

Lines and Line Segments

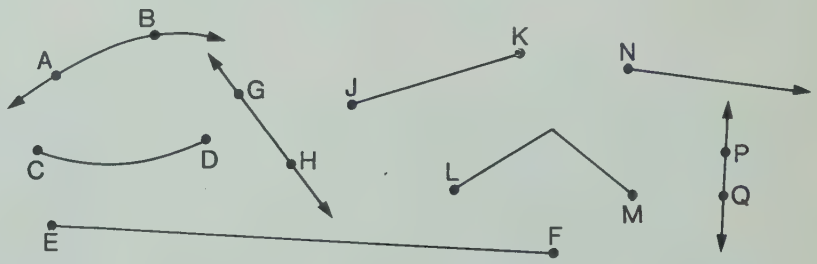
Name

1. all the lines shown.

$\overleftrightarrow{GH}$, $\overleftrightarrow{PQ}$

2. all the line segments shown.

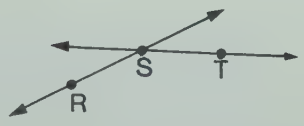
$\overline{EF}$, $\overline{JK}$



Name

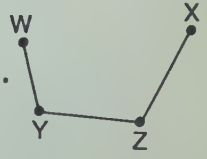
3. all the lines shown.

$\overline{RS}$, $\overline{ST}$



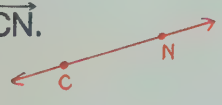
4. all the line segments shown.

$\overline{WY}$, $\overline{YZ}$, $\overline{ZX}$



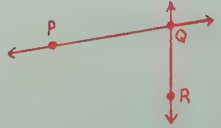
Draw and label Pictures will vary.

5. $\overleftrightarrow{CN}$.



6. $\overline{AD}$.

7. points P, Q, R, and $\overleftrightarrow{PQ}$ and $\overleftrightarrow{QR}$.



Print

8. your first name using only line segments. Answers will vary.

NAME

SPM4/U4/78-79

Angles

Name the angles suggested by each picture.

1. 

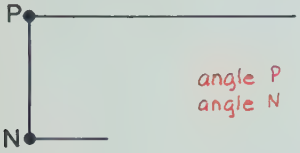
angle D
angle S
angle T

2. 

angle R
angle Z
angle A

3. 

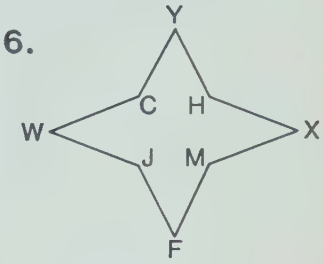
angle O

4. 

angle P
angle N

5. 

angle G

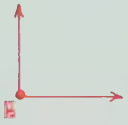
6. 

angle W
angle J
angle F
angle M
angle X
angle H
angle Y
angle Z

Draw and label these.

7. angle C smaller than a right angle

8. right angle B

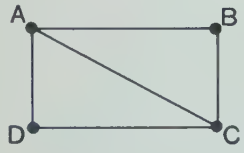


9. angle A larger than a right angle

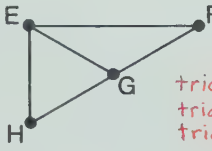
SPM4/U4/80-81

Triangles

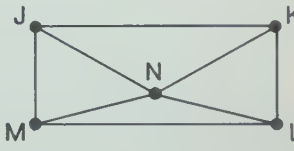
Name each triangle shown.

1. 

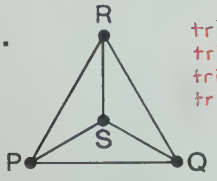
triangle ABC,
triangle ADC

2. 

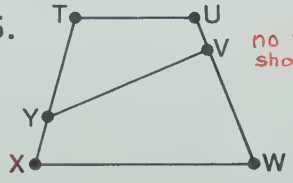
triangle EFG
triangle EHG
triangle EFH

3. 

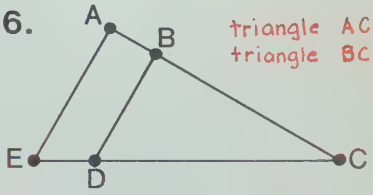
triangles
JNK
KNL
LNM
MNJ

4. 

triangle PSR
triangle RSQ
triangle QSP
triangle PQR

5. 

no triangles shown

6. 

triangle ACE
triangle BCD

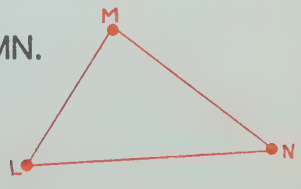
For the triangle shown,

7. name the angles.

angle A
angle R
angle T

Draw and label Pictures will vary.

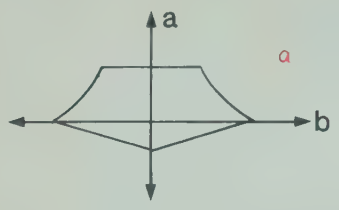
8. a triangle with sides LM and MN.



NAME

Practice

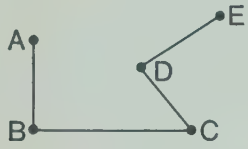
Which line is a line of symmetry?

1. 

Draw a line of symmetry.

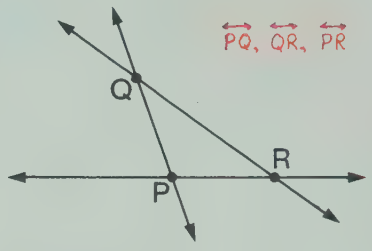
2. 

Name all the line segments shown.

3. 

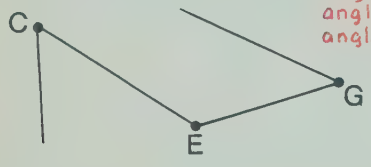
$\overline{AB}$
$\overline{BC}$
$\overline{CD}$
$\overline{DE}$

Name all the lines shown.

4. 

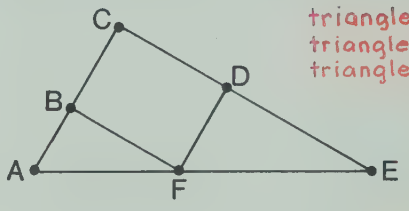
$\overleftrightarrow{PQ}$, $\overleftrightarrow{QR}$, $\overleftrightarrow{PR}$

Name the angles suggested by this picture.

5. 

angle C
angle E
angle G

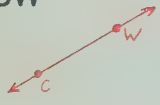
Name each triangle shown.

6. 

triangle ABF
triangle FDE
triangle ACE

Draw and label these. Pictures will vary.

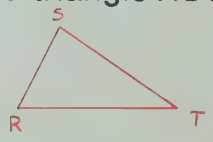
7. $\overleftrightarrow{CW}$



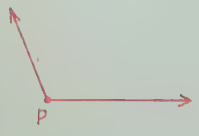
8. right angle Q

9. $\overline{LN}$

10. triangle RST

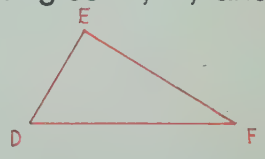


11. angle P larger than a right angle.



12. angle X smaller than a right angle.

13. a triangle with angles D, E, and F.

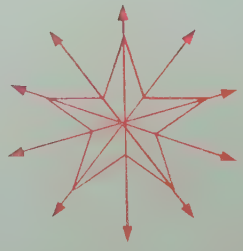


Draw a picture for each of these.
Show a line of symmetry. Pictures will vary.

14. a bicycle tire

Any line containing the centre is a line of symmetry.

15. a star



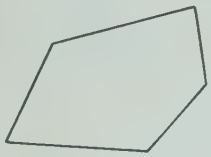
NAME

SPM4/U4/82-83

Polygons

Is it a polygon? If so, name the kind of polygon. Give the number of sides and the number of angles for each polygon.

1.



pentagon

5 sides

5 angles

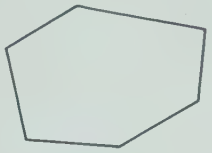
2.

quadrilateral

4 sides

4 angles

3.

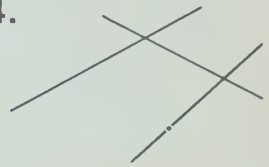


hexagon

6 sides

6 angles

4.

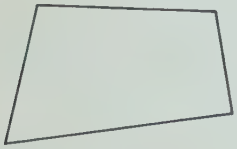


not a polygon

___ sides

___ angles

5.



quadrilateral

4 sides

4 angles

6.

not a polygon

___ sides

___ angles

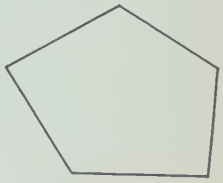
7.

octagon

8 sides

8 angles

8.



pentagon

5 sides

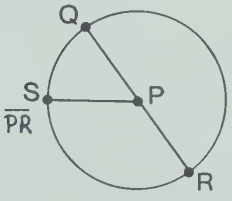
5 angles

SPM4/U4/84-85

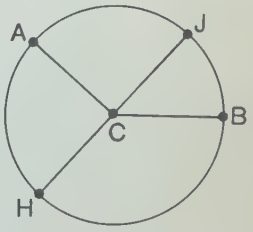
Circles

Name

1. the centre. P
2. each radius. $\overline{PS}$, $\overline{PQ}$, $\overline{PR}$
3. each diameter. $\overline{QR}$

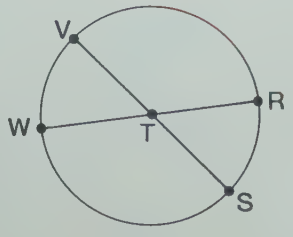


4. the centre. C
5. each radius. $\overline{CA}$, $\overline{CB}$, $\overline{CH}$, $\overline{CJ}$
6. each diameter. $\overline{HJ}$

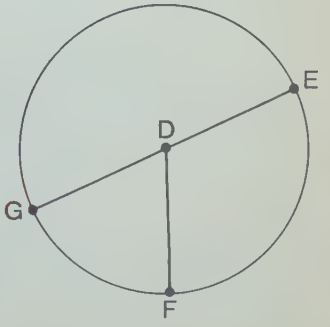


What is

7. the name of this shape? circle
8. T? centre
9. $\overline{VS}$? diameter
10. $\overline{TR}$? radius
11. $\overline{WR}$? diameter



12. $\overline{DF}$? radius
13. D? centre
14. $\overline{DG}$? radius
15. $\overline{GD}$? radius
16. $\overline{EG}$? diameter



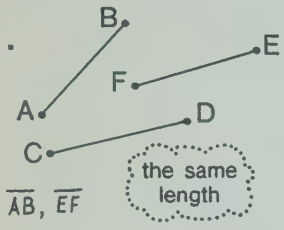
NAME

SPM4/U4/86-87

Congruent Shapes

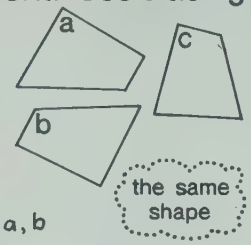
Which shapes are congruent. Use tracing paper if needed.

1.



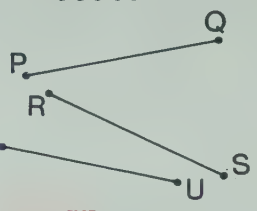
$\overline{AB}$, $\overline{EF}$

2.



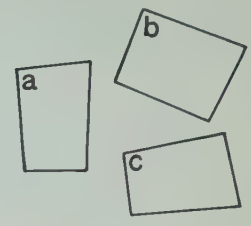
a, b

3.



$\overline{PQ}$, $\overline{RS}$

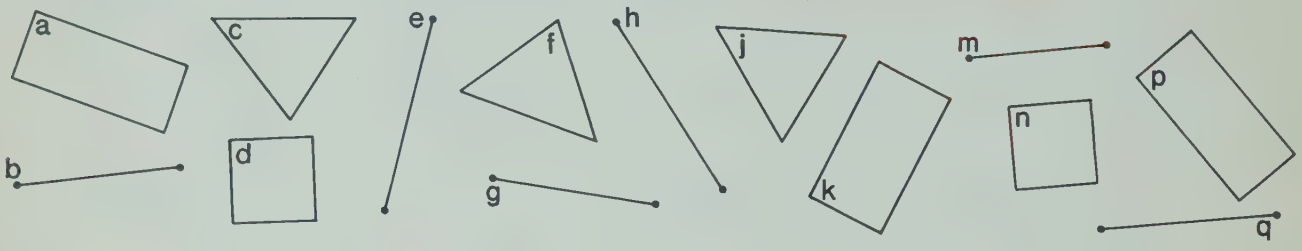
4.



a, c

Use tracing paper to find five pairs of congruent shapes. a,p c,f d,n b,g e,h

5.



SPM4/U4/88-89

Solids

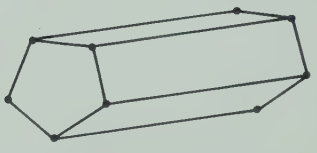
For each solid, give the number of vertices, edges, and faces.
Describe the faces.

1.

8 vertices 12 edges 6 faces

2 squares, 4 rectangles

2.



10 vertices 15 edges 7 faces

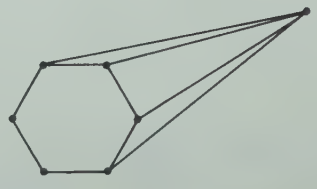
2 pentagons, 5 rectangles

3.

6 vertices 9 edges 5 faces

2 triangles, 3 rectangles

4.



7 vertices 12 edges 7 faces

1 hexagon, 6 triangles

5. Use another sheet of paper. Patterns will vary.
Sketch a pattern for each solid shown above.

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 3004 \\ -\ 729 \\ \hline 2275 \end{array}$

2. $\begin{array}{r} 605 \\ 293 \\ +\ 741 \\ \hline 1639 \end{array}$

3. $\begin{array}{r} 163 \\ -\ 95 \\ \hline 68 \end{array}$

4. $\begin{array}{r} \$721 \\ 483 \\ +\ 619 \\ \hline \$1823 \end{array}$

5. $\begin{array}{r} \$427 \\ -\ 386 \\ \hline \$\ 41 \end{array}$

6. $\begin{array}{r} \$7914 \\ -\ 2088 \\ \hline \$5826 \end{array}$

7. $\begin{array}{r} 1176 \\ -\ 849 \\ \hline 327 \end{array}$

8. $\begin{array}{r} 3987 \\ +\ 123 \\ \hline 4110 \end{array}$

9. $\begin{array}{r} \$17 \\ +\ 28 \\ \hline \$45 \end{array}$

10. $\begin{array}{r} 1500 \\ -\ 585 \\ \hline 915 \end{array}$

11. $420 + 806 + 993$
2219

12. $2716 - (1213 - 804)$
2307

13. $1741 + 869 + 74$
2684

14. $\$753 - \$201$
$552

15. $(210 - 90) - 30$
90

16. $210 - (90 - 30)$
150

Solve. Show your work.

17. Last Saturday the odometer on the car showed 4217 km. This Saturday it shows 5412 km. How far was the car driven this week? 1195 km

18. The hospital has 336 beds. Only 71 are empty. How many patients are there? 265

19. The Vanderlippe family was looking for a new car. They had $2350 in the bank. The bank also promised a loan of up to $5750. How much could they spend for the car? $8100

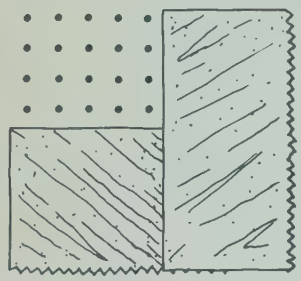
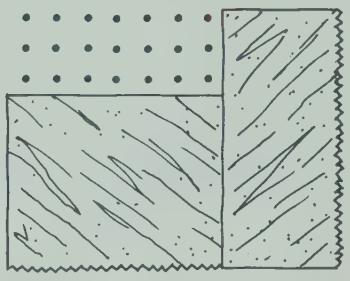
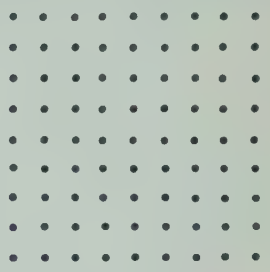
20. When school opens in the fall, it will have 92, 117, and 89 students in each of its three grades. 298 Altogether, how many students will it have?

NAME

SPM4/U5/94-95

Basic Facts, One Factor to 5

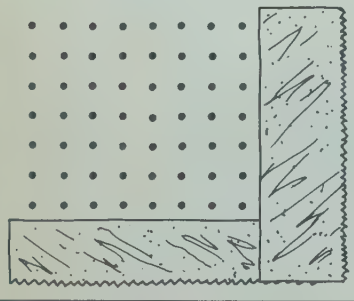
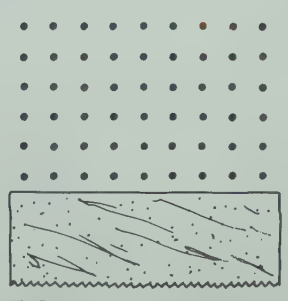
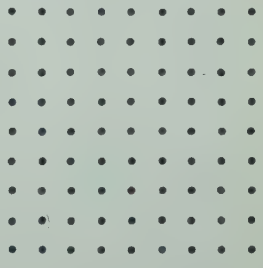
Multiply.

1. 4 x 5 20 	2. 3 x 7 21 	Cover as needed to help you find the products. 	
3. 6 x 4 24	4. 5 x 2 10	5. 2 x 9 18	6. 5 x 9 45
7. 7 x 3 21	8. 6 x 5 30	9. 3 x 5 15	10. 4 x 7 28
11. 7 x 2 14	12. 8 x 4 32	13. 5 x 7 35	14. 2 x 6 12
15. 8 x 5 40	16. 9 x 3 27	17. 3 x 8 24	18. 4 x 9 36

SPM4/U5/96-97

Finding Products with Factors from 0 to 9

Find each product.

1. 7 x 8 56 	2. 6 x 9 54 	Cover as needed to help you find the products. 	
3. 7 x 6 42	4. 8 x 9 72	5. 6 x 6 36	6. 4 x 3 12
7. 6 x 8 48	8. 6 x 3 18	9. 7 x 9 63	10. 5 x 5 25
11. 3 x 3 9	12. 7 x 7 49	13. 8 x 2 16	14. 8 x 8 64
15. 4 x 4 16	16. 8 x 7 56	17. 9 x 9 81	18. 9 x 6 54

NAME

SPM4/U5/100-101

A Table of Basic Multiplication Facts

The "5 times" Table

5 x 0 = 0
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45

The "times 7" Table

0 x 7 = 0
1 x 7 = 7
2 x 7 = 14
3 x 7 = 21
4 x 7 = 28
5 x 7 = 35
6 x 7 = 42
7 x 7 = 49
8 x 7 = 56
9 x 7 = 63

The Multiplication Basic-Facts Table

x	0	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9
2	0	2	4	6	8	10	12	14	16	18
3	0	3	6	9	12	15	18	21	24	27
4	0	4	8	12	16	20	24	28	32	36
5	0	5	10	15	20	25	30	35	40	45
6	0	6	12	18	24	30	36	42	48	54
7	0	7	14	21	28	35	42	49	56	63
8	0	8	16	24	32	40	48	56	64	72
9	0	9	18	27	36	45	54	63	72	81

On other paper, write the tables chosen by your teacher from these.

0 times 1 times 2 times 3 times 4 times 5 times 6 times 7 times 8 times 9 times

times 0 times 1 times 2 times 3 times 4 times 5 times 6 times 7 times 8 times 9 times

When finished, use the Basic-Facts Table to check your work.

SPM4/U5/102-103

Finding the Missing Factor

Complete.

1. 5 x 4 = 20	2. 3 x 8 = 24	3. 5 x 7 = 35
4. 4 x 2 = 8	5. 9 x 5 = 45	6. 3 x 6 = 18
7. 7 x 3 = 21	8. 8 x 7 = 56	9. 8 x 4 = 32
10. 4 x 9 = 36	11. 4 x 7 = 28	12. 9 x 8 = 72
13. 6 x 7 = 42	14. 2 x 8 = 16	15. 4 x 6 = 24
16. 3 x 4 = 12	17. 5 x 5 = 25	18. 7 x 9 = 63
19. 6 x 8 = 48	20. 9 x 2 = 18	21. 8 x 5 = 40
22. 3 x 9 = 27	23. 9 x 9 = 81	24. 6 x 9 = 54

NAME

SPM4/U5/106-107

10 and Multiples of 10 as Factors

Multiply.

1. 4 x 60 = 240
   4 x 6 tens = 24 tens

2. 8 x 20 = 160
   8 x 2 tens = 16 tens

3. 7 x 80 = 560

4.

x	40
6	240
7	280
3	120

5. 3 x 70 = 210

6. 6 x 50 = 300

7. 5 x 90 = 450

8. 9 x 60 = 540

9.

x	30
3	90
7	210
5	150
8	240
1	30
6	180

10.

x	90
7	630
9	810
6	540
4	360
0	0
8	720

11.

x	10	50	70	60	40	80
8	80	400	560	480	320	640

12.

x	20	80	30	70	40	50
4	80	320	120	280	160	200

13.

x	30	20	50	80	40	70
9	270	180	450	720	360	630

SPM4/U5/108-109

Multiplying Two - Digit Numbers

Multiply.

1. 32 x 8 = 256
   16 ← 8 x 2
   240 ← 8 x 30

2. 68 x 3 = 204
   24 ← 3 x 8
   180 ← 3 x 60

3. 25 x 7 = 175

4. 19 x 4 = 76

5. 36 x 5 = 180

6. 47 x 3 = 141

7. 38 x 6 = 228

8. 25 x 9 = 225

9. 56 x 2 = 112

10. 84 x 7 = 588

11. 44 x 4 = 176

12. 79 x 8 = 632

13. 97 x 5 = 485

14. 64 x 9 = 576

15. 67 x 6 = 402

NAME _____

Practice

Perform the indicated operation.

1. $6042 + 3759 = 9801$

2. $\$42.16 - 18.37 = \$23.79$

3. $7 \times 8 = 56$

4. $97 \times 5 = 485$

5. $2004 - 738 = 1266$

6. $217 + 493 + 816 = 1526$

7. $74 \times 5 = 370$

8. $1170 + 5011 + 2469 = 8650$

9. $3275 - 1596 = 1679$

10. $9 \times 6 = 54$

11. $4 \times 63 = 252$

12. $\$20.95 - \$4.77 = \$16.18$

13. $27 + 692 + 805 = 1524$

14. $1650 - 1171 = 479$

15. $7 \times 81 = 567$

16. $\$33.73 + \$16.85 = \$50.58$

Solve. Show your work.

17. One box contains 750 screws. Another has 575. A third has 475. How many screws are there in all? 1800

18. Marta bought 6 packages of cheese. Each package holds 32 slices. How many slices are there in all? 192

19. The thumbtack box holds 600 tacks when full. Now there are only 123 tacks in the box. How many tacks have been used? 477

20. Food supplies for camp cost $37.86. The first-aid kit cost $17.95. What was the total cost for the food and first-aid kit? $55.81

21. A carton holds 24 packages of cereal. Each package has 8 individual boxes. How many individual boxes are there in the carton? 192

22. The flight out to the island was 270 km. The direct trip back was only 213 km. How much longer was the flight out? 57 km

NAME

SPM4/U5/110-111

100 and Multiples of 100 as Factors

Multiply.

1. 5 x 300 1500
   5 x 3 hundreds = 15 hundreds

2. 4 x 200 800
   4 x 2 hundreds = 8 hundreds

3. 2 x 700
   1400

4.

x	700
7	4900
4	2800
8	5600

5. 3 x 800 2400

6. 4 x 400 1600

7. 7 x 600 4200

8. 8 x 300 2400

9.

x	900
6	5400
2	1800
7	6300
1	900
9	8100
4	3600

10.

x	600
8	4800
0	0
5	3000
2	1200
4	2400
6	3600

11.

x	200	300	700	900	400	600
3	600	900	2100	2700	1200	1800

12.

x	500	200	700	400	100	900
5	2500	1000	3500	2000	500	4500

13.

x	400	100	800	200	900	500
8	3200	800	6400	1600	7200	4000

SPM4/U5/112-113

Multiplying Three - Digit Numbers

Multiply.

1. 438 x 3
   24 ← 3 x 8
   90 ← 3 x 30
   1200 ← 3 x 400
   1314

2. 267 x 5
   35 ← 5 x 7
   300 ← 5 x 60
   1000 ← 5 x 200
   1335

3. 517 x 3 = 1551

4. 384 x 4 = 1536

5. 736 x 2 = 1472

6. 684 x 6 = 4104

7. 562 x 9 = 5058

8. 794 x 7 = 5558

9. 185 x 8 = 1480

NAME

SPM4/U5/114-115

The Standard Form for Multiplication

Multiply. Use the standard form.

1. $\overset{2}{36} \times 4 = 144$	2. $\overset{4}{47} \times 6 = 282$	3. $68 \times 3 = 204$	4. $85 \times 6 = 510$	5. $16 \times 7 = 112$
6. $59 \times 2 = 118$	7. $48 \times 4 = 192$	8. $80 \times 8 = 640$	9. $23 \times 7 = 161$	10. $73 \times 9 = 657$
11. $375 \times 8 = 3000$	12. $485 \times 5 = 2425$	13. $408 \times 7 = 2856$	14. $917 \times 4 = 3668$	15. $861 \times 9 = 7749$
16. $649 \times 8 = 5192$	17. $945 \times 9 = 8505$	18. $609 \times 5 = 3045$	19. $537 \times 3 = 1611$	20. $962 \times 6 = 5772$

SPM4/U5/118-119

Multiplying Dollars and Cents

Multiply.

1. $\overset{4\ 4}{\$2.89} \times 5 = \$14.45$	2. $\overset{2}{\$6.13} \times 7 = \$42.91$	3. $\$9.26 \times 6 = \$55.56$	4. $\$1.48 \times 4 = \$5.92$	5. $\$0.86 \times 3 = \$2.58$
6. $\$0.73 \times 4 = \$2.92$	7. $\$7.39 \times 3 = \$22.17$	8. $\$9.46 \times 2 = \$18.92$	9. $\$5.34 \times 5 = \$26.70$	10. $\$4.57 \times 8 = \$36.56$
11. $\$7.34 \times 6 = \$44.04$	12. $\$3.61 \times 9 = \$32.49$	13. $\$0.49 \times 7 = \$3.43$	14. $\$2.09 \times 9 = \$18.81$	15. $\$0.12 \times 8 = \$0.96$

NAME

SPM4/U5/120-121

More Than Two Factors

Multiply. Use other paper as needed.

1. $6 \times 9 \times 4$ 216 (54 x 4; 6 x 36)	2. $4 \times 3 \times 7$ 84 (12 x 7; 4 x 21)	3. $7 \times 2 \times 6$ 84 4. $2 \times 8 \times 3 \times 5$ 240
5. $2 \times 3 \times 4$ 24	6. $5 \times 7 \times 7$ 245	7. $3 \times 4 \times 5$ 60
8. $1 \times 6 \times 5$ 30	9. $1 \times 4 \times 4 \times 6$ 96	10. $6 \times 0 \times 7$ 0
11. $8 \times 3 \times 9 \times 5$ 1080	12. $2 \times 9 \times 1 \times 9$ 162	13. $7 \times 1 \times 8 \times 2$ 112
14. $3 \times 8 \times 4$ 96	15. $4 \times 3 \times 6 \times 6$ 432	16. $7 \times 2 \times 5 \times 9$ 630

SPM4/U5/122

Multiplication, Addition, and Subtraction Together

Perform the indicated operations. Work inside the parentheses first.
Use other paper as needed.

1. $(67 + 44) \times 3$ 333 67 + 44 = 111; 111 x 3 = 333	2. $(81 \times 7) - 39$ 528 81 x 7	3. $(81 \times 3) - 7$ 236 4. $(81 - 3) \times 7$ 546
5. $(52 \times 7) - 160$ 204	6. $394 + (260 \times 8)$ 2474	7. $(394 + 260) \times 8$ 5232
8. $(35 + 518) \times 3$ 1659	9. $35 + (518 \times 3)$ 1589	10. $(35 \times 3) + 518$ 623
11. $3000 - (323 \times 3)$ 2031	12. $52 \times (740 - 732)$ 416	13. $(2001 - 643) \times 4$ 5432
14. $200 \times (200 - 192)$ 1600	15. $(438 \times 7) + 4387$ 7453	16. $2005 - (238 \times 6)$ 577

NAME _____

Practice

Perform the indicated operation.

1. $41.63 − 17.85 = $23.78

2. 200 × 7 = 1400

3. 468 + 723 + 845 = 2036

4. 46 × 9 = 414

5. $4.37 × 5 = $21.85

6. 4391 − 2435 = 1956

7. 862 × 3 = 2586

8. $21.70 + 43.86 + 24.81 = $90.37

9. $1471 − 896 = $575

10. 583 × 6 = 3498

11. $20.07 − $8.68 = $11.39

12. 3 × 8 × 7 = 168

13. 756 − (83 + 142) = 531

14. (12 − 7) × 5 = 25

15. 10 × 8 = 80

16. (91 − 88) × 148 = 444

Solve. Show your work.

17. Winifred is saving her $1.75 allowance each week. How much will she have in 4 weeks? $7.00

18. The film could be shown to 175 persons 4 times each hour. How many persons could see the film in 8 h? 5600

19. Rona was given $50.00 to buy supplies for the office. Her purchases amounted to $27.53. How much did she have to return to the office? $22.47

20. The builder charged $47.50 for painting, $23.60 for carpentry, and $17.95 for materials. What was the total bill? $89.05

21. Cupcakes come from the bakery, 2 in each package. A box contains 36 packages. A carton contains 6 boxes. How many cupcakes does a carton hold? 432

22. 500 envelopes come in a box. Jon has 4 boxes. How many envelopes does Jon have? 2000

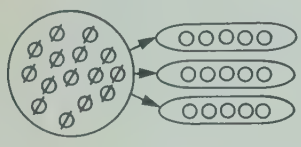
NAME

SPM4/U6/128-129

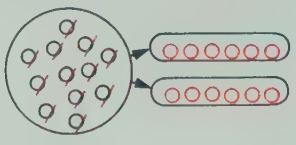
Sharing

Draw a picture and complete the division fact.

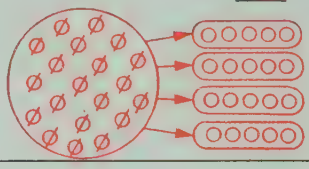
1. 15 ÷ 3 = 5



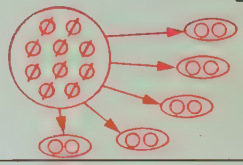
2. 12 ÷ 2 = 6



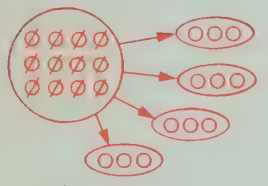
3. 20 ÷ 4 = 5



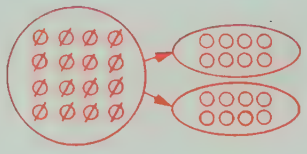
4. 10 ÷ 5 = 2



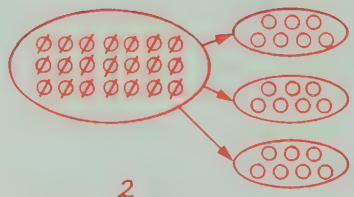
5. 12 ÷ 4 = 3



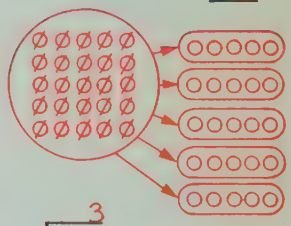
6. 16 ÷ 2 = 8



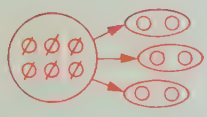
7. 21 ÷ 3 = 7



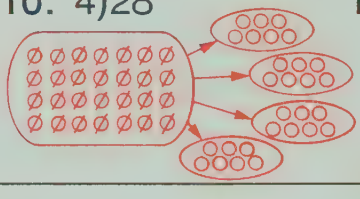
8. 25 ÷ 5 = 5



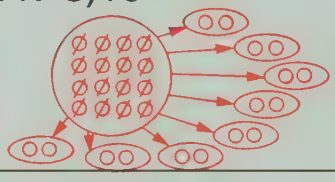
9. 3)6



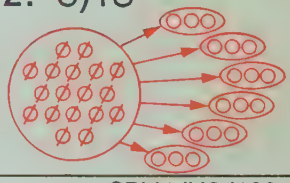
10. 4)28



11. 8)16



12. 6)18

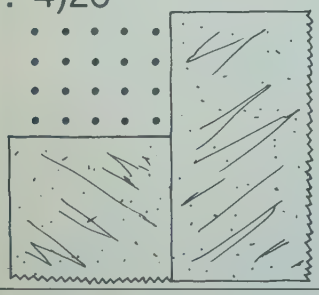


SPM4/U6/130-131

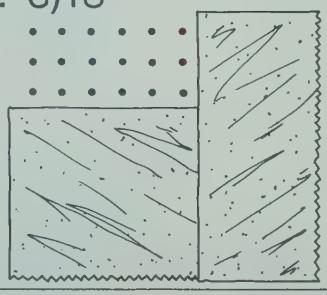
Finding the Quotient

Find the quotient.

1. 4)20



2. 3)18



Cover as needed to help you find the quotient.

3. 3)21 4. 5)30 5. 9)54 6. 6)24 7. 2)18

8. 7)42 9. 8)32 10. 3)12 11. 5)45 12. 9)27

13. 7)56 14. 6)48 15. 8)72 16. 4)28 17. 2)10

NAME

SPM4/U6/132-133

Related Multiplication and Division Facts

Write the complete family of facts for each group of numbers.

1. 5, 7, 35

$5 \times 7 = 35$
$7 \times 5 = 35$
$35 \div 7 = 5$
$35 \div 5 = 7$

2. 9, 4, 36

$9 \times 4 = 36$
$4 \times 9 = 36$
$36 \div 4 = 9$
$36 \div 9 = 4$

3. 6, 7, 42

$6 \times 7 = 42$
$7 \times 6 = 42$
$42 \div 6 = 7$
$42 \div 7 = 6$

4. 6, 8, 48

$6 \times 8 = 48$
$8 \times 6 = 48$
$48 \div 6 = 8$
$48 \div 8 = 6$

5. 5, 6, 30

$5 \times 6 = 30$
$6 \times 5 = 30$
$30 \div 5 = 6$
$30 \div 6 = 5$

6. 4, 7, 28

$4 \times 7 = 28$
$7 \times 4 = 28$
$28 \div 4 = 7$
$28 \div 7 = 4$

7. 8, 7, 56

$8 \times 7 = 56$
$7 \times 8 = 56$
$56 \div 8 = 7$
$56 \div 7 = 8$

8. 8, 3, 24

$8 \times 3 = 24$
$3 \times 8 = 24$
$24 \div 8 = 3$
$24 \div 3 = 8$

9. 9, 8, 72

$9 \times 8 = 72$
$8 \times 9 = 72$
$72 \div 9 = 8$
$72 \div 8 = 9$

10. 3, 6, 18

$3 \times 6 = 18$
$6 \times 3 = 18$
$18 \div 3 = 6$
$18 \div 6 = 3$

11. 4, 6, 24

$4 \times 6 = 24$
$6 \times 4 = 24$
$24 \div 4 = 6$
$24 \div 6 = 4$

12. 9, 5, 45

$9 \times 5 = 45$
$5 \times 9 = 45$
$45 \div 9 = 5$
$45 \div 5 = 9$

SPM4/U6/136-137

Using Multiplication to Divide

Divide. Show the multiplication fact you use.

1. $9\overline{)36}$ — $9 \times 4 = 36$

2. $7\overline{)56}$ — $7 \times 8 = 56$

3. $4\overline{)28}$

4. $2\overline{)18}$

5. $6\overline{)48}$

6. $6\overline{)24}$

7. $7\overline{)42}$

8. $8\overline{)32}$

9. $5\overline{)30}$

10. $3\overline{)12}$

11. $6\overline{)12}$

12. $9\overline{)63}$

13. $5\overline{)40}$

14. $7\overline{)35}$

15. $3\overline{)24}$

16. $8\overline{)64}$

17. $2\overline{)14}$

18. $9\overline{)54}$

19. $5\overline{)15}$

20. $4\overline{)16}$

NAME _____

Practice

Perform the indicated operation.

1. $\$27.41 + 56.32$ = $\$83.73$

2. 432×6 = 2592

3. $1903 + 5677$ = 7580

4. $7\overline{)56}$ = 8

5. 38×7 = 266

6. $2107 - 485$ = 1622

7. $\$10.03 - 3.74$ = $\$6.29$

8. $9\overline{)72}$ = 8

9. $6304 + 295 + 1784$ = 8383

10. 500×3 = 1500

11. $56 \div 7$ = 8

12. $\$402 - \$179$ = $\$223$

13. $7 \times 2 \times 5 \times 3$ = 210

14. $217 + 804 + 193$ = 1214

15. $3 \times 5 \times 2 \times 4$ = 120

16. $7 \times (140 - 88)$ = 364

Solve. Show your work.

17. Manya's father won a contest at the grocery store. To claim the prize he had to answer this "skill-testing question." $4000 - (378 \times 6) + 982 = ?$ What is the correct answer? 750

18. The hardware company buys a case of light bulbs. The case holds 3 cartons. A carton holds 6 packages. Each package holds 4 bulbs. How many bulbs are in the case? 72

19. This summer the grain harvest at the MacLeod farm was 4294 kg. Last year it was only 3716 kg. How much larger is the crop this year? 578 kg

20. Toby has 54 rabbits. He wants to put an equal number in each pen. He has 6 pens. How many rabbits should he put in each pen? 9

21. The Lawry family car holds 54 L of gasoline. When Mrs. Lawry had it filled, it took 37 L. How many litres were already in it? 17

22. Jean had $87.16 in his savings account. The bank added $5.88 interest. Now how much does he have? $93.04

NAME

SPM4/U6/138-139

Finding the Number of Groups

Divide. Show the multiplication fact you use.

1. $4\overline{)36}$ $\overset{9}{}$ $4 \times 9 = 36$	2. $8\overline{)56}$ $\overset{7}{}$ $8 \times \underline{7} = 56$	3. $7\overline{)28}$ $\overset{4}{}$	4. $9\overline{)18}$ $\overset{2}{}$	5. $8\overline{)48}$ $\overset{6}{}$

6. $4\overline{)24}$ $\overset{6}{}$	7. $6\overline{)42}$ $\overset{7}{}$	8. $4\overline{)32}$ $\overset{8}{}$	9. $6\overline{)30}$ $\overset{5}{}$	10. $4\overline{)12}$ $\overset{3}{}$
11. $2\overline{)12}$ $\overset{6}{}$	12. $7\overline{)63}$ $\overset{9}{}$	13. $8\overline{)40}$ $\overset{5}{}$	14. $5\overline{)35}$ $\overset{7}{}$	15. $8\overline{)24}$ $\overset{3}{}$
16. $6\overline{)36}$ $\overset{6}{}$	17. $7\overline{)14}$ $\overset{2}{}$	18. $6\overline{)54}$ $\overset{9}{}$	19. $3\overline{)15}$ $\overset{5}{}$	20. $7\overline{)49}$ $\overset{7}{}$

SPM4/U6/142-143

Extending the Division Facts

Divide.

1. $3\overline{)150}$ $\overset{50}{}$ $3 \times 50 = 150$	2. $5\overline{)200}$ $\overset{40}{}$ $5 \times \underline{40} = 200$	3. $6\overline{)180}$ $\overset{30}{}$	4. $4\overline{)160}$ $\overset{40}{}$	5. $6\overline{)300}$ $\overset{50}{}$

6. $7\overline{)210}$ $\overset{30}{}$	7. $8\overline{)480}$ $\overset{60}{}$	8. $8\overline{)320}$ $\overset{40}{}$	9. $2\overline{)120}$ $\overset{60}{}$	10. $5\overline{)350}$ $\overset{70}{}$
11. $4\overline{)280}$ $\overset{70}{}$	12. $7\overline{)420}$ $\overset{60}{}$	13. $2\overline{)180}$ $\overset{90}{}$	14. $8\overline{)640}$ $\overset{80}{}$	15. $4\overline{)360}$ $\overset{90}{}$
16. $2\overline{)60}$ $\overset{30}{}$	17. $9\overline{)630}$ $\overset{70}{}$	18. $8\overline{)160}$ $\overset{20}{}$	19. $9\overline{)810}$ $\overset{90}{}$	20. $5\overline{)400}$ $\overset{80}{}$

NAME

Remainders

Divide. Show the quotient and the remainder.

1. $9\overline{)38}$ → 4 R2; 36 (9 x 4), 2
2. $5\overline{)28}$ → 5 R3; 25 (5 x 5), 3
3. $8\overline{)60}$ → 7 R4
4. $4\overline{)23}$ → 5 R3
5. $7\overline{)52}$ → 7 R3
6. $8\overline{)26}$ → 3 R2
7. $9\overline{)58}$ → 6 R4
8. $3\overline{)20}$ → 6 R2
9. $6\overline{)38}$ → 6 R2
10. $4\overline{)19}$ → 4 R3
11. $7\overline{)41}$ → 5 R6
12. $3\overline{)28}$ → 9 R1
13. $2\overline{)11}$ → 5 R1
14. $8\overline{)63}$ → 7 R7
15. $4\overline{)30}$ → 7 R2
16. $8\overline{)19}$ → 2 R3
17. $2\overline{)15}$ → 7 R1
18. $9\overline{)26}$ → 2 R8
19. $6\overline{)53}$ → 8 R5
20. $5\overline{)49}$ → 9 R4

Practice

Solve. Show your work.

1. 3 persons agree to share equally a job of addressing 120 envelopes. How many will each have to address? 40
2. If the Chens drive 125 km after lunch, they will cover 304 km today. How far have they gone already? 179 km
3. The 54 recruits will be divided equally into 6 squads. How many will be in each squad? 9
4. Ticket sales for the three performances of the play are $36.75, $29.15 and $27.00. What is the total? $92.90
5. Each student in the school volunteers to make 4 items for the Autumn Craft Sale. There are 168 students in the school. How many items will they make in all? 672
6. The river splits into 2 branches. Each branch has 6 boathouses. Each boathouse has 7 boats. How many boats are there in all? 84

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 3017 \\ -\ 486 \\ \hline 2531 \end{array}$

2. $\begin{array}{r} \$2780 \\ 4216 \\ +\ 1539 \\ \hline \$8535 \end{array}$

3. $\begin{array}{r} 435 \\ \times\ 7 \\ \hline 3045 \end{array}$

4. $\begin{array}{r} 21 \\ \times\ 0 \\ \hline 0 \end{array}$

5. $\begin{array}{r} \$16.25 \\ 43.93 \\ +\ 17.08 \\ \hline \$77.26 \end{array}$

6. $\begin{array}{r} \$7.34 \\ \times\ 5 \\ \hline \$36.70 \end{array}$

7. $9\overline{)630}$ 70

8. $\begin{array}{r} 600 \\ \times\ 7 \\ \hline 4200 \end{array}$

9. $\begin{array}{r} \$16.07 \\ -\ 3.21 \\ \hline \$12.86 \end{array}$

10. $7\overline{)56}$ 8

11. $1238 - 715$ 523

12. $(3 + 4) \times 412$ 2884

13. $(17 \times 9) - 149$ 4

14. $7 \times 3 \times 8 \times 2$ 336

15. $86 + 419 + 307$ 812

16. $(1335 + 1665) - 1536$ 1464

Solve. Show your work.

17. The Pryor's bank account had \$7615 in it. They withdrew \$1955 to take a trip. How much does that leave in the account? \$5660

18. On one of its best days, Meg's business had \$5388 in direct sales and \$3574 in mail orders. What was the sales total for the day? \$8962

19. Raffle tickets come 10 in a book. Giovanni has sold 9 books. How many tickets has he sold? 90

20. Vito solved the cube puzzle in 175 s. Angelo took 232 s. How much longer did Angelo take? 57 s

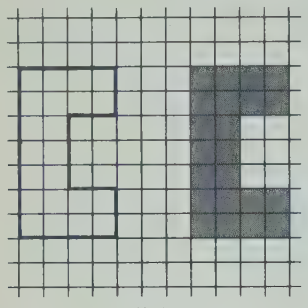
21. When the tournament was postponed, the coach called 6 parents. Each parent called 6 more parents, each of whom called 6 more. In this way, how many were told of the postponement? 216

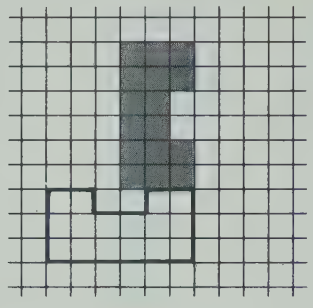
22. Diesel fuel needs for the farm were 3217 L in June, 3075 L in July, and 2871 L in August. How much fuel was used in all during the three months? 9163 L

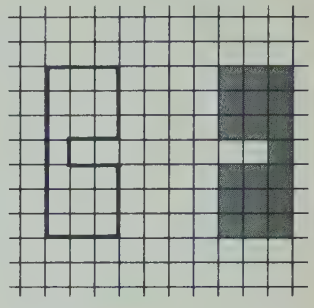
NAME

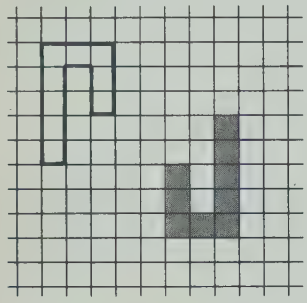
Motions for Matching Congruent Shapes

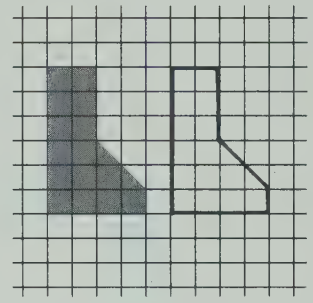
Use tracing paper. Tell whether you can slide, flip, or turn a tracing of the white shape to match the gray shape.

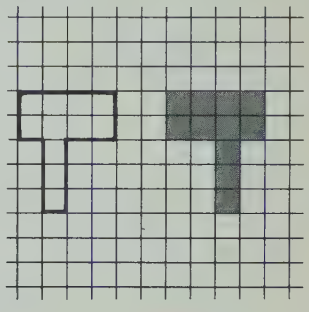
1. 
slide

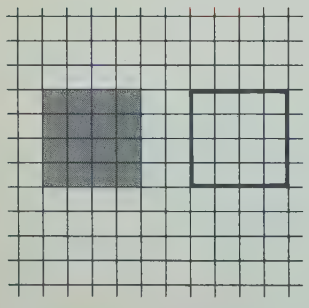
2. 
turn

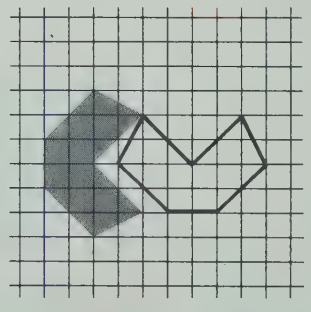
3. 
flip

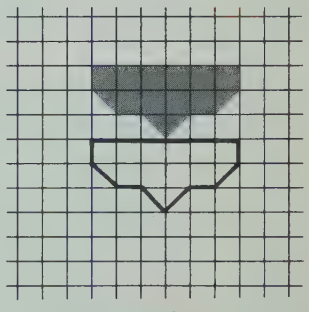
4. 
turn

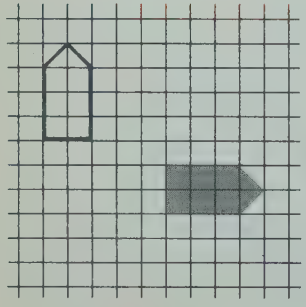
5. 
slide

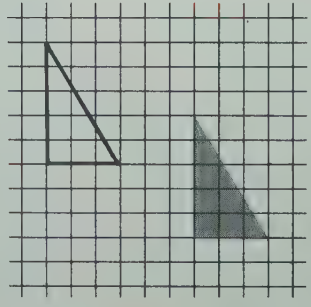
6. 
flip

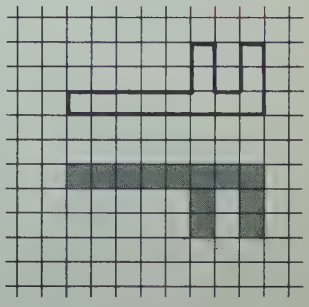
7. 
slide, flip or turn

8. 
turn

9. 
slide

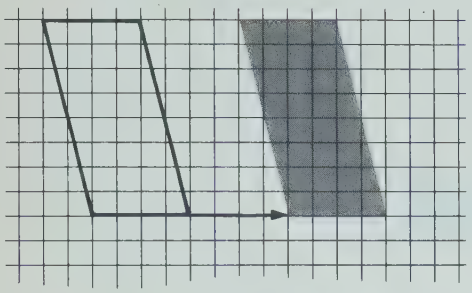
10. 
turn

11. 
slide

12. 
flip

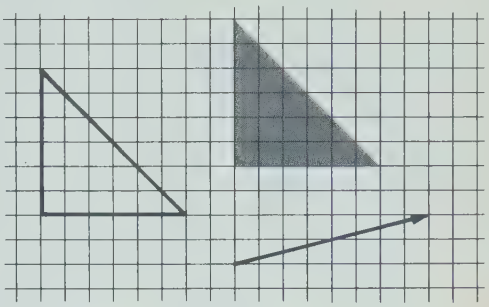
Slides

Use tracing paper. Test whether the gray shape is the slide image of the white shape for the given slide arrow.

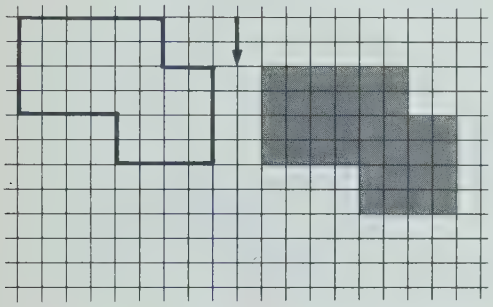
1. 

no

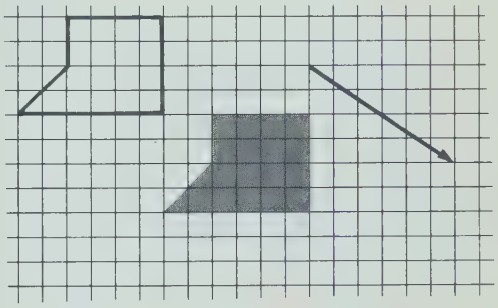
slide arrow too short!

2. 

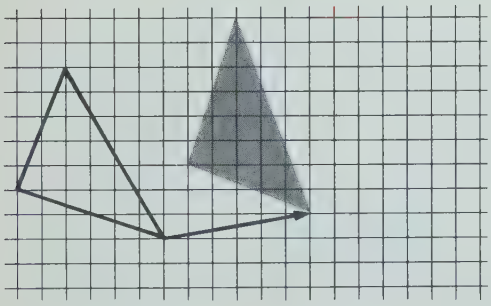
yes

3. 

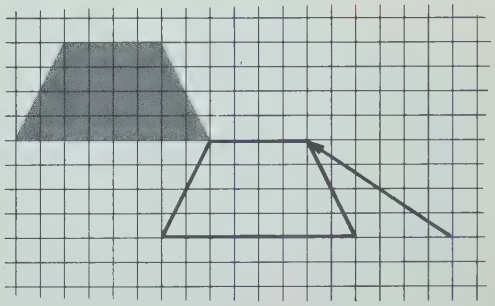
no

4. 

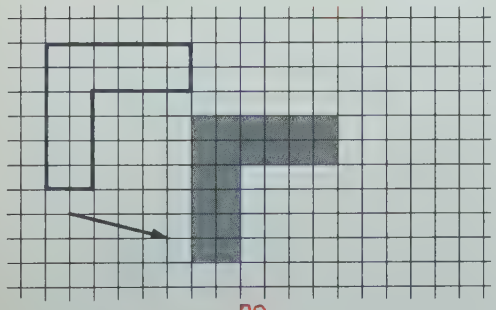
yes

5. 

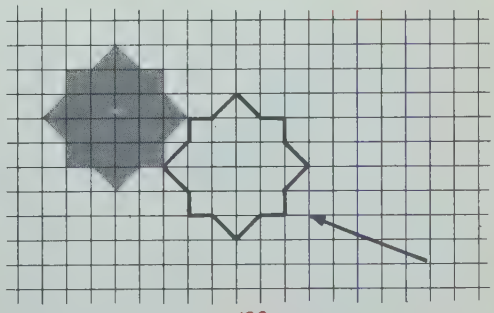
no

6. 

yes

7. 

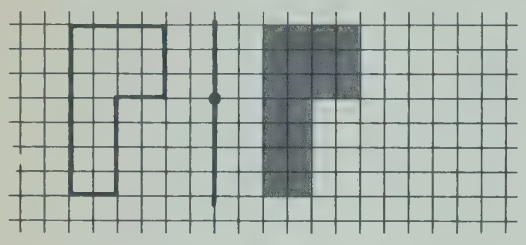
no

8. 

yes

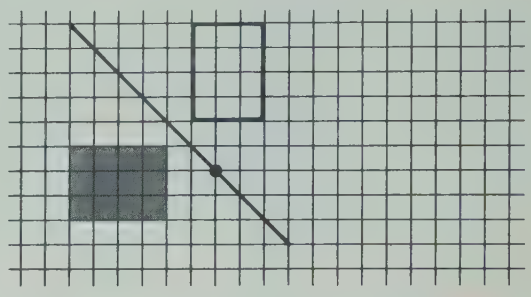
Flips

Use tracing paper. Test whether the gray shape is the flip image of the white shape for the given flip line.

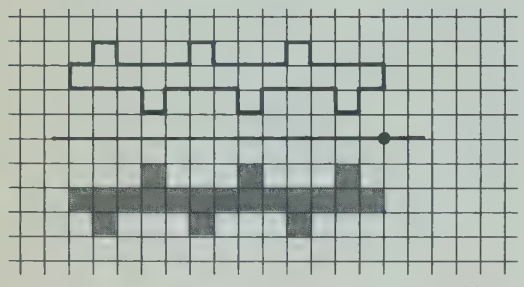
1. 

no

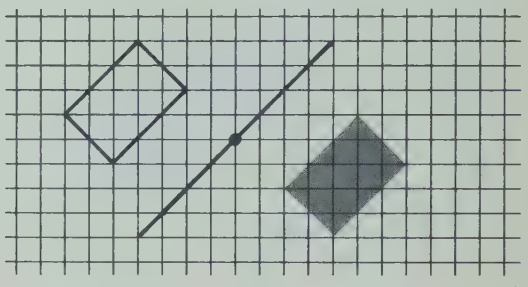
gray shape is not "flipped"

2. 

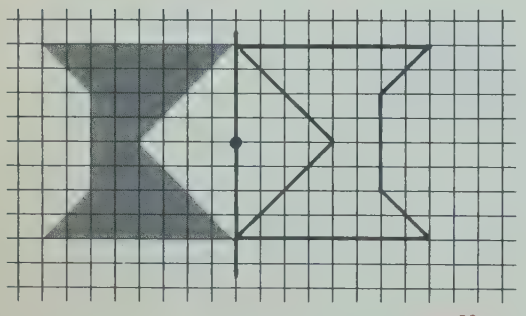
yes

3. 

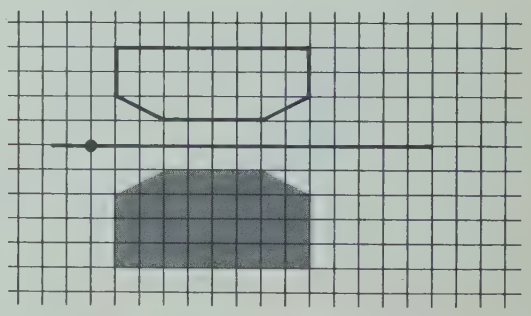
yes

4. 

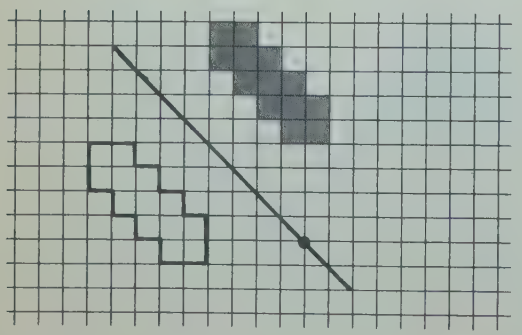
no

5. 

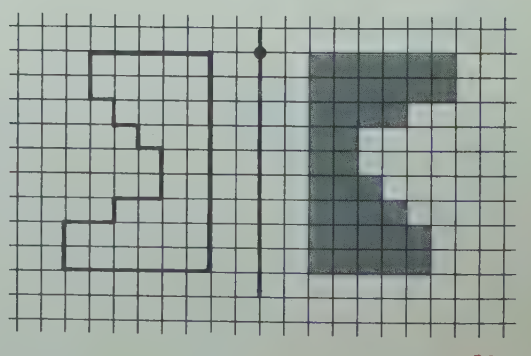
yes

6. 

no

7. 

yes

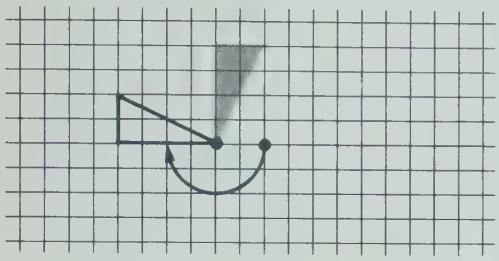
8. 

no

Turns

Use tracing paper. Test whether the gray shape is the turn image of the white shape for the given turn centre and turn arrow.

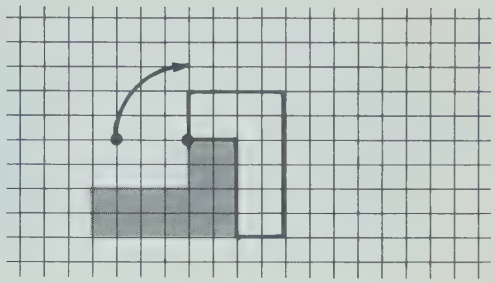
1.



no

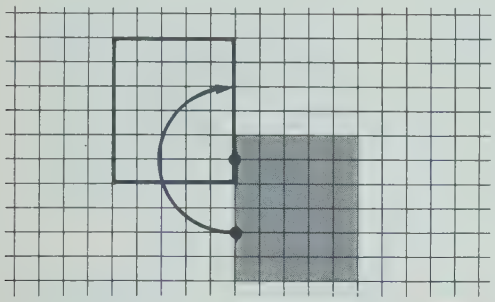
not enough turn

2.



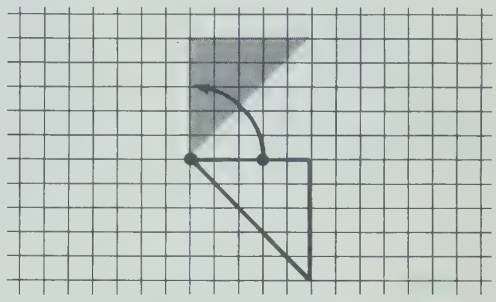
yes

3.



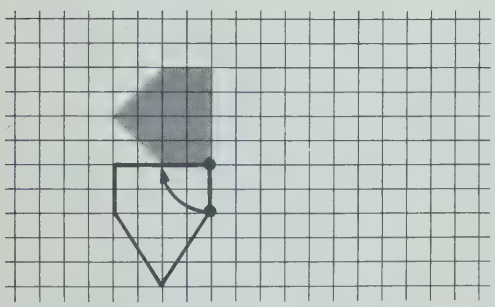
yes

4.



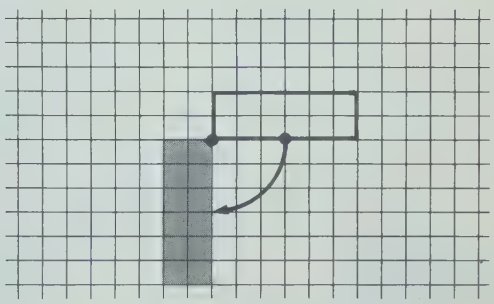
yes

5.



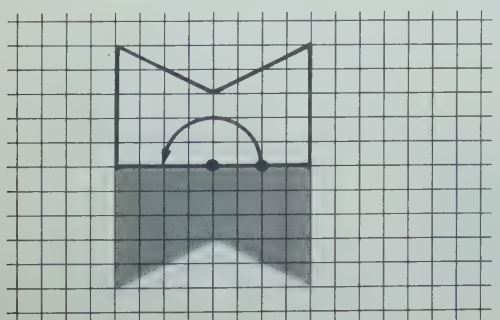
no

6.



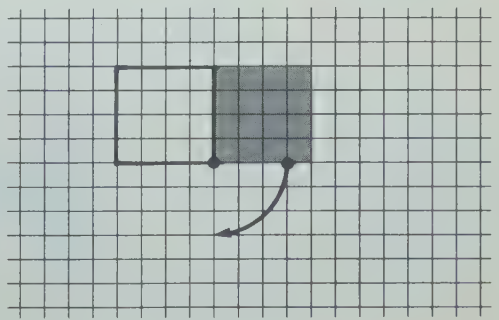
no

7.



yes

8.



yes

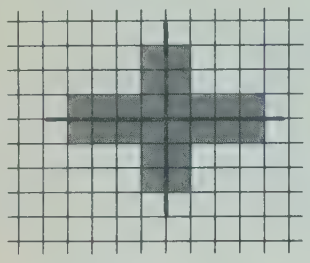
NAME

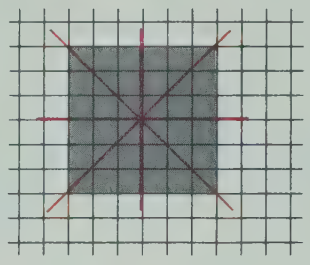
SPM4/U7/158-159

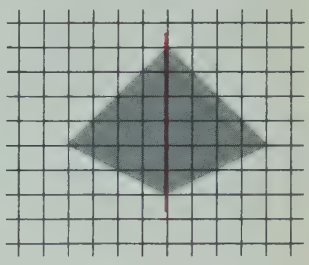
Flip Lines and Lines of Symmetry

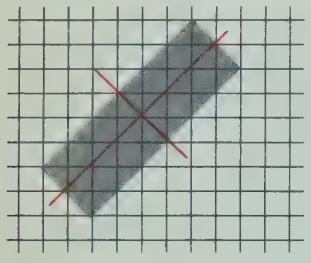
Draw the lines of symmetry for each shape.

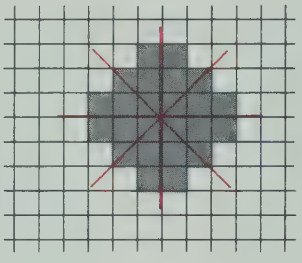
Guess a line of symmetry. Then use tracing paper to check: The part of a figure on one side of a line of symmetry is the flip image of the part on the other side.

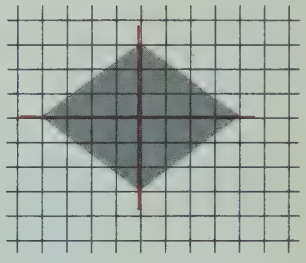
1. 

2. 

3. 

4. 

5. 

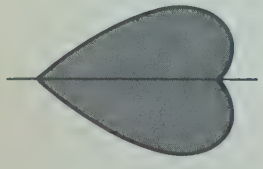
6. 

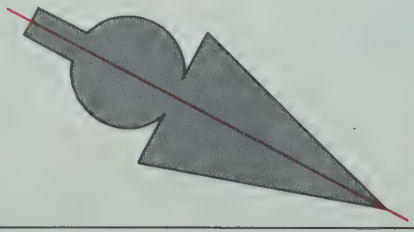
SPM4/U7/160-161

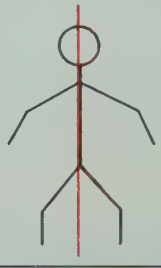
Checking for Symmetry

Draw the lines of symmetry for each shape.

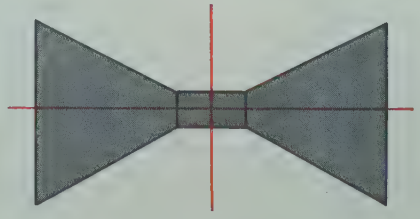
Trace the shape. Then look for a way to fold the tracing paper so that the parts of the shape on each fold match.

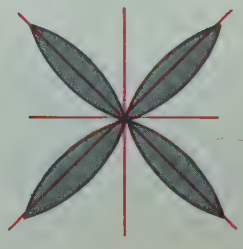
1. 

2. 

3. 

4. 

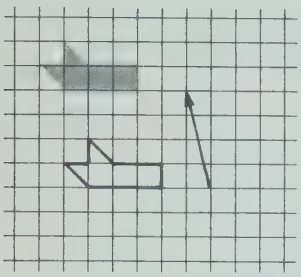
5. 

6. 

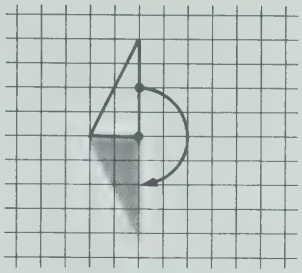
NAME

Practice

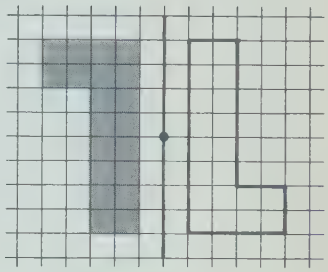
Use tracing paper. Test whether the gray shape is a slide, flip, or turn image of the white shape for the given slide arrow, flip line, or turn arrow.

1. 

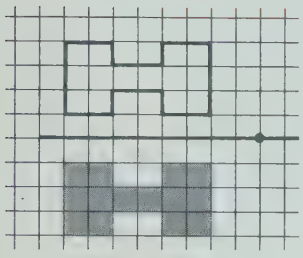
yes (slide)

2. 

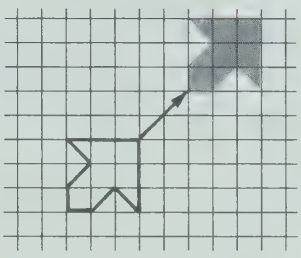
no

3. 

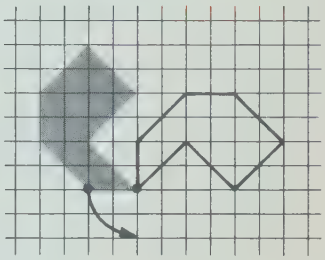
not a flip

4. 

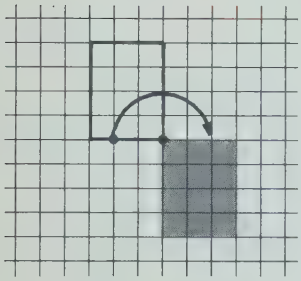
yes

5. 

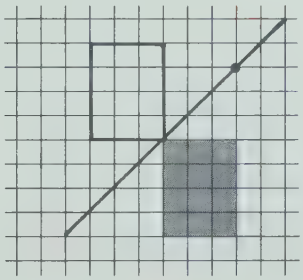
no

6. 

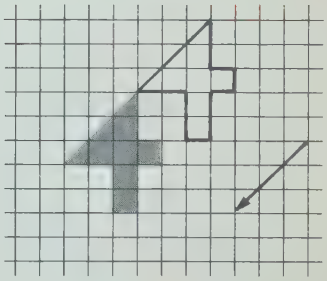
yes

7. 

yes

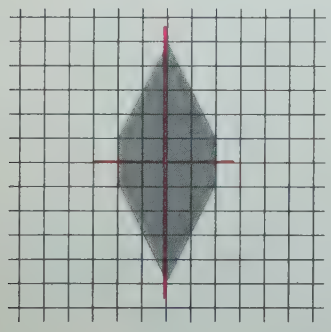
8. 

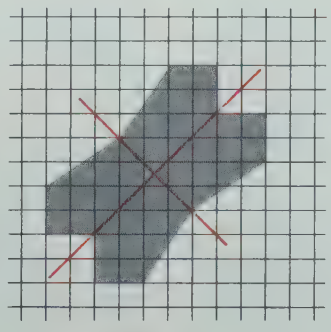
no

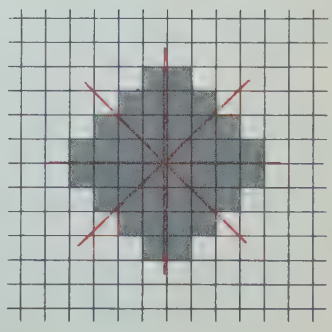
9. 

yes

Find the lines of symmetry for each shape.
Use tracing paper to check.

10. 

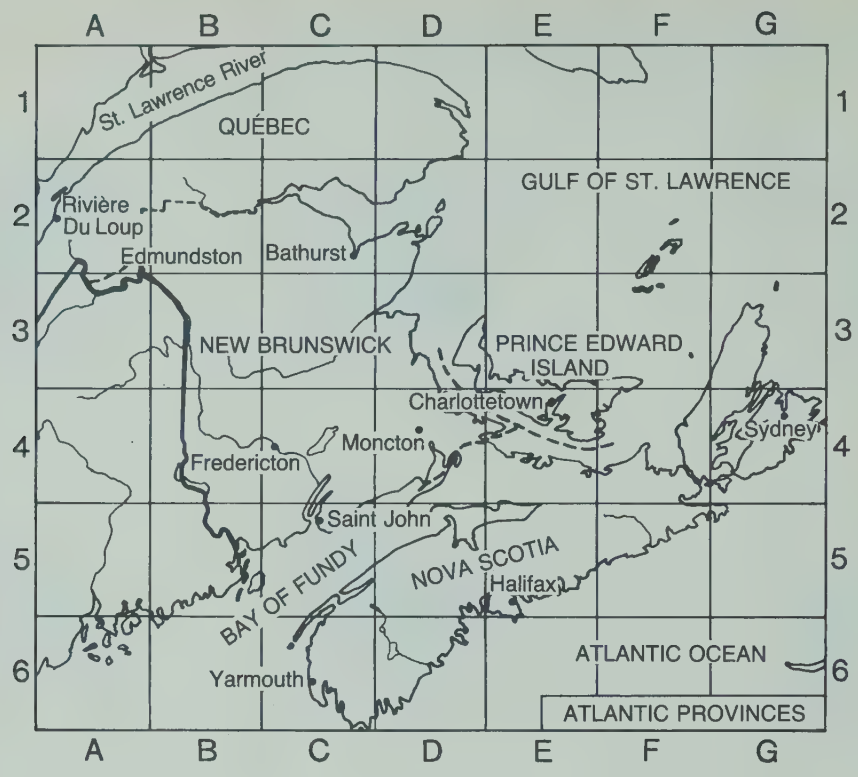
11. 

12. 

NAME

SPM4/U7/162-163

Places on a Map



Name the region for

1. Charlottetown. (E,4)	2. Yarmouth. (C,6)	3. Sydney. (G,4)
4. Halifax. (E,5)	5. Moncton. (D,4)	6. Bathurst. (C,2)
7. Rivière Du Loup. (A,2)	8. Fredericton. (C,4)	9. Edmundston. (A,2)

Name the regions for

10. the border of Canada and the United States.
(A,3), (A,2), (B,3), (B,4), (B,5),

11. New Brunswick.
(A,2), (A,3), (B,2), (B,3), (B,4), (B,5)
(C,2), (C,3), (C,4), (C,5), (D,2), (D,3), (D,4), (E,4)

12. the Bay of Fundy.
(B,6), (B,5), (C,6), (C,5), (D,5), (D,4), (E,5)

13. the Nova Scotia coastline.
(C,5), (C,6), (D,4), (D,5), (D,6), (E,4), (E,5), (F,3), (F,4), (F,5), (G,3), (G,4), (G,5)

Name

14. a city in region (C, 5). Saint John

15. a river in region (B, 1). St. Lawrence

16. a province in regions (D, 3), (D, 4), (E, 3), (E, 4), (F, 3), (F, 4).
Prince Edward Island

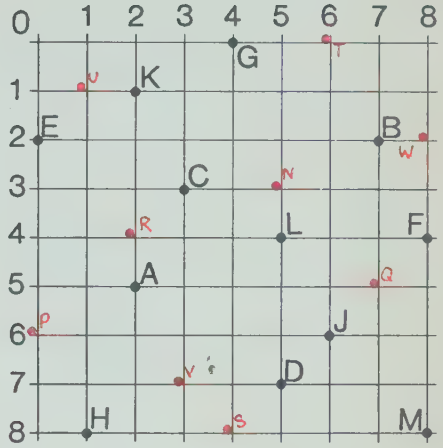
17. two provinces that share region (C, 2).
Québec, New Brunswick

NAME

Positions on a Grid

Write a number pair for each point.

1. A (2,5)	2. B (7,2)	3. C (3,3)
4. D (5,7)	5. E (0,2)	6. F (8,4)
7. G (4,0)	8. H (1,8)	9. J (6,6)
10. K (2,1)	11. L (5,4)	12. M (8,8)



On the grid, draw a point for each number pair.

13. N(5, 3)	14. P(0, 6)	15. Q(7, 5)
16. R(2, 4)	17. S(4, 8)	18. T(6, 0)
19. U(1, 1)	20. V(3, 7)	21. W(8, 2)

Practice

1. Sally delivers newspapers to people living in 3 large apartment buildings. She has 78 customers in one building. In the other two she has 56 customers and 68 customers. How many papers does she need? 202

2. The library has 420 books which it plans to display on 7 shelves. All the shelves are to have the same number of books. How many books should be put on each shelf? 60

3. Maria received $10.00 for her birthday. She bought a puzzle for $1.89 and a book for $2.95. How much does she have left? $ 5.16

4. 265 students attend Moro School. Each student has agreed to find 3 sponsors for the play. How many sponsors will that be? 795

5. St. Jacques is 415 km away and Rawling is 88 km beyond that. How far away is Rawling? 503 km

6. 2017 people voted in the town election this year. 1926 voted last year. How many more voted this year? 91

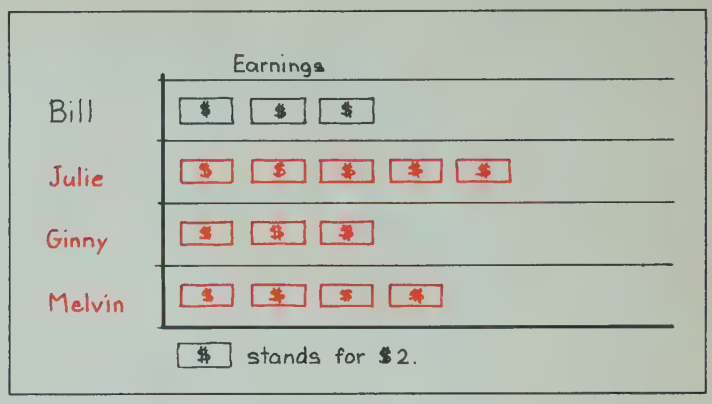
NAME

SPM4/U7/166

Drawing Pictographs

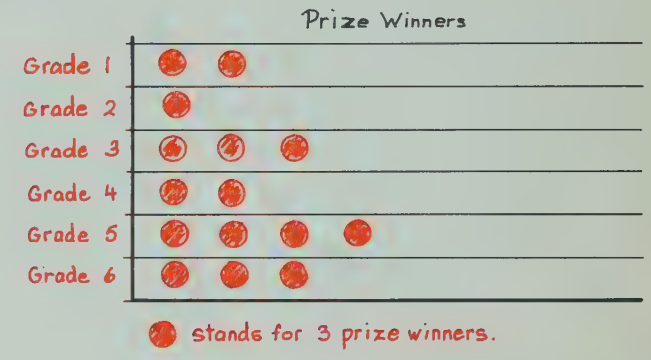
Draw a pictograph for the given information.

	Worker	Earnings
1.	Bill	$ 6
	Julie	$10
	Ginny	$ 6
	Melvin	$ 8



	Grade	Prize Winners
2.	1	6
	2	3
	3	9
	4	6
	5	12
	6	9

Graphs will vary.

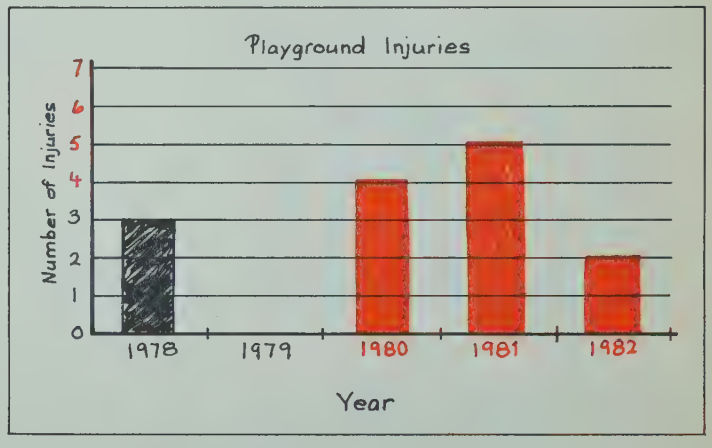


SPM4/U7/167

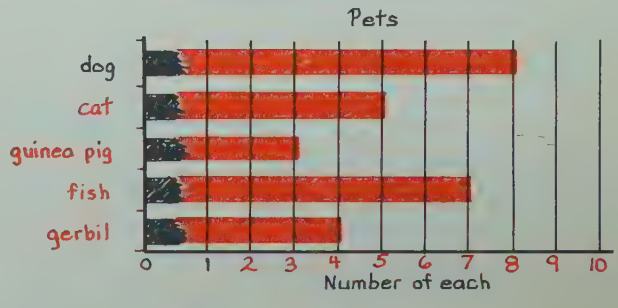
Drawing Bar Graphs

Draw a bar graph for the given information.

	Year	Playground Injuries
1.	1978	3
	1979	0
	1980	4
	1981	5
	1982	2



	Pet	Number
2.	dog	8
	cat	5
	guinea pig	3
	fish	7
	gerbil	4



NAME _____

Practice

Perform the indicated operation.

1. $\$5.69 + 7.64 = \$13.33$

2. $5210 - 3187 = 2023$

3. $274 \times 7 = 1918$

4. $7\overline{)630} = 90$

5. $\$3.71 \times 5 = \$18.55$

6. $7003 - 2138 = 4865$

7. $703 + 815 + 362 = 1880$

8. $8\overline{)60} = 7 \text{ R } 4$

9. $415 \times 8 = 3320$

10. $748 - 192 = 556$

11. $273 - 186 = 87$

12. $540 \div 9 = 60$

13. $9 \times 57 = 513$

14. $72 \div 8 = 9$

15. $23 + 806 + 94 = 923$

16. $3 \times 2 \times 5 \times 7 = 210$

17. $\$4.19 - \$0.37 = \$3.82$

Solve. Show your work.

18. Tennis balls come 3 to a can. If each can sells for about $3.95, how much would 6 cans cost? $\$23.70$

19. Lucy bought a tennis outfit for $29.95 and a new racket for $48.50. Together what did these cost? $\$78.45$

20. It takes 4 people to play "doubles" in tennis. A group of 28 players would require how many courts to play doubles matches all at one time? 7

21. The Schroeders paid $120 for family tennis lessons. Later $35 was returned for cancelled lessons. What was the final cost? $\$85$

22. A set in the school tennis tournament may have as few as 6 games and as many as 11. What is the greatest number of games possible for a match of 5 sets? 55

23. When the tennis weekend was over, 135 matches had been played on Saturday and 257 had been played on Sunday. How many matches were played on the weekend? 392

NAME

SPM4/U8/174-175

Using Decimals to Show Wholes and Tenths

Write the decimal.

1. twelve and four-tenths 12.4
2. two-tenths 0.2
3. six and one-tenth 6.1

Write the words.

4. 4.9 four and nine-tenths
5. 0.4 four-tenths
6. 1.6 one and six-tenths

Write the decimal.

7. nine and seven-tenths 9.7
8. nine-tenths 0.9
9. five and six-tenths 5.6
10. two and five-tenths 2.5
11. three-tenths 0.3
12. fourteen and eight-tenths 14.8

Write the words.

13. 3.2 three and two-tenths
14. 0.1 one-tenth
15. 8.8 eight and eight-tenths

SPM4/U8/176-177

Using Decimals to Show Wholes and Hundredths

Write the decimal.

1. one and eighteen-hundredths 1.18
2. forty-six hundredths 0.46
3. five-hundredths 0.05
4. ten and two-hundredths 10.02

Write the words.

5. 2.59 two and fifty-nine hundredths
6. 1.06 one and six-hundredths
7. 0.25 twenty-five hundredths

Write the decimal.

8. six and seventy-nine hundredths 6.79
9. one and ten-hundredths 1.10
10. two-hundredths 0.02
11. four and sixteen-hundredths 4.16
12. two and seven-hundredths 2.07
13. fifty-five hundredths 0.55

Write the words.

14. 3.18 three and eighteen-hundredths
15. 0.92 ninety-two hundredths
16. 5.01 five and one-tenth

NAME

SPM4/U8/178-179

Relating Hundredths and Tenths

Complete the chart.

	Using tenths		Using hundredths	
1.	2.1	two and one-tenth	2.10	two and ten-hundredths
2.	0.4	four-tenths	0.40	forty-hundredths
3.	3.8	three and eight-tenths	3.80	three and eighty-hundredths
4.	1.5	one and five-tenths	1.50	one and fifty-hundredths
5.	0.2	two-tenths	0.20	twenty-hundredths
6.	2.9	two and nine-tenths	2.90	two and ninety-hundredths
7.	1.7	one and seven-tenths	1.70	one and seventy-hundredths
8.	0.3	three-tenths	0.30	thirty-hundredths
9.	4.6	four and six-tenths	4.60	four and sixty-hundredths

SPM4/U8/182-183

Decimals and Money

Give the value of each.

	dollars	dimes	pennies	value		dollars	dimes	pennies	value
1.	3	2	16	$3.36	2.	3	13	1	$4.31
3.	0	16	8	$1.68	4.	0	7	17	$0.87
5.	1	14	4	$2.44	6.	1	2	12	$1.32
7.	3	11	5	$4.15	8.	1	12	14	$2.34
9.	0	9	10	$1.00	10.	0	15	11	$1.61
11.	2	18	10	$3.90	12.	5	9	19	$6.09
13.	1	0	5	$1.05	14.	4	10	10	$5.10
15.	3	9	12	$4.02	16.	1	17	18	$2.88

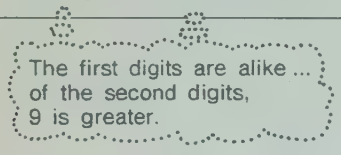
NAME

SPM4/U8/186-187

Comparing and Ordering Decimals

Which is greater,

1. 1.79 or 1.97? 1.97



2. 3.7 or 2.8? 3.7

3. 0.75 or 0.77? 0.77

4. 5.4 or 5.5? 5.5

5. 65.4 or 6.54? 65.4

6. 0.28 or 0.82? 0.82

7. 2.89 or 2.9? 2.9

Which is less,

8. 0.06 or 0.6? 0.06

9. 2.9 or 2.10? 2.10

10. 6.5 or 6.07? 6.07

List from least to greatest.

11. 0.01, 1.1, 1.0, 0.1
0.01, 0.1, 1.0, 1.1

12. 3.3, 3.15, 3.14, 13.1
3.14, 3.15, 3.3, 13.1

13. 1.02, 1.3, 1.22, 1.20
1.02, 1.20, 1.22, 1.3

List from greatest to least.

14. 1.8, 1.18, 0.88, 1.81
1.81, 1.80, 1.18, 0.88

15. 2.07, 2.7, 0.27, 2.77
2.77, 2.7, 2.07, 0.27

16. 3.26, 32.6, 2.26, 22.6
32.6, 22.6, 3.26, 2.26

SPM4/U8/188-189

Adding Decimals

Add.

1. $\begin{array}{r} {\scriptstyle 1\ 1} \\ 2.87 \\ +\ 5.43 \\ \hline 8.30 \end{array}$

2. $\begin{array}{r} {\scriptstyle 1} \\ 2.49 \\ +\ 4.82 \\ \hline 7.31 \end{array}$

3. $\begin{array}{r} 12.19 \\ +\ 53.05 \\ \hline 65.24 \end{array}$

4. 5.62 + 3.18 8.80

5. $\begin{array}{r} 3.25 \\ +\ 3.67 \\ \hline 6.92 \end{array}$

6. $\begin{array}{r} 1.95 \\ +\ 6.44 \\ \hline 8.39 \end{array}$

7. $\begin{array}{r} 63.5 \\ +\ 24.5 \\ \hline 88.0 \end{array}$

8. $\begin{array}{r} 7.69 \\ +\ 0.51 \\ \hline 8.20 \end{array}$

9. $\begin{array}{r} 2.7 \\ +\ 2.6 \\ \hline 5.3 \end{array}$

10. $\begin{array}{r} 4.87 \\ +\ 0.34 \\ \hline 5.21 \end{array}$

11. $\begin{array}{r} 4.5 \\ +\ 2.9 \\ \hline 7.4 \end{array}$

12. $\begin{array}{r} 5.69 \\ +\ 1.49 \\ \hline 7.18 \end{array}$

13. $\begin{array}{r} 3.84 \\ +\ 6.73 \\ \hline 10.57 \end{array}$

14. $\begin{array}{r} 1.95 \\ +\ 7.32 \\ \hline 9.27 \end{array}$

15. 33.67 + 9.87
43.54

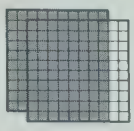
16. 34.1 + 16.8
50.9

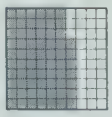
17. 31.78 + 24.42
56.20

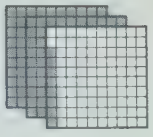
NAME _____

Practice

Write a decimal to match each picture.

1.  1.8

2.  0.67

3.  2.08

4. 

5. 

Write the decimal.

6. two-tenths 0.2
7. eighty-seven hundredths 0.87
8. one and three-tenths 1.3
9. four and one-hundredth 4.01

Write the words.

10. 0.5 five-tenths
11. 4.26 four and twenty-six hundredths
12. 2.6 two and six-tenths
13. 0.07 seven-hundredths

Write each as a two-place decimal.

14. 6.7 6.70
15. 0.9 0.90

Write each as a one-place decimal.

16. 14.30 14.3
17. 0.10 0.1

Complete.

18. 0.27 shows 2 tenths 7 hundredths, or 27 hundredths.
19. 4 dollars 12 dimes are worth $5.20.
20. 1 dollar 4 dimes 18 pennies are worth $1.58.
21. 15 dimes 16 pennies are worth $1.66.

Which is greater,

22. 1.2 or 1.6? 1.6
23. 2.30 or 2.03? 2.30
24. 0.9 or 0.3? 0.9
25. 4.20 or 4.22? 4.22

List from least to greatest.

26. 0.94, 1.49, 0.49, 0.99
0.49, 0.94, 0.99, 1.49

List from greatest to least.

27. 3.33, 3.63, 0.66, 3.36
3.63, 3.36, 3.33, 0.66

Add.

28. $\begin{array}{r} 1.8 \\ +\ 2.6 \\ \hline 4.4 \end{array}$

29. $\begin{array}{r} 6.36 \\ +\ 1.35 \\ \hline 7.71 \end{array}$

30. $\begin{array}{r} 2.6 \\ +\ 5.4 \\ \hline 8.0 \end{array}$

31. $\begin{array}{r} 2.67 \\ +\ 5.59 \\ \hline 8.26 \end{array}$

32. $\begin{array}{r} 1.83 \\ +\ 0.67 \\ \hline 2.50 \end{array}$

33. 8.6 + 0.8 9.4
34. 4.84 + 3.17 8.01
35. 6.95 + 1.08 8.03

NAME

SPM4/U8/190-191

Subtracting Decimals

Subtract.

1. 6.94 − 4.58 = 2.36	2. 84.5 − 16.9 = 67.6	3. $70.00 − 35.81 = $34.19	4. 8.60 − 7.35 = 1.25

5. 7.93 − 5.48 = 2.45	6. 30.01 − 24.72 = 5.29	7. $56.39 − 47.93 = $ 8.46	8. 50.0 − 36.9 = 13.1	9. 84.96 − 36.38 = 48.58
10. $80.64 − 63.59 = $17.05	11. 9.64 − 2.93 = 6.71	12. 70.50 − 61.56 = 8.94	13. 7.3 − 5.7 = 1.6	14. 43.61 − 25.68 = 17.93

15. 10.2 − 6.4 = 3.8

16. $10.15 − $2.51 = $7.64

17. 3.81 − 1.44 = 2.37

SPM4/U8/194-195

Multiplying Decimal Tenths and Whole Numbers

Multiply.

1. 0.8 × 4 = 3.2 (4 x 8 tenths = 32 tenths)	2. 0.7 × 5 = 3.5 (5 x 7 tenths)	3. 0.6 × 3 = 1.8	4. 6 x 0.5 = 3.0

5. 0.5 × 3 = 1.5	6. 0.4 × 9 = 3.6	7. 0.4 × 7 = 2.8	8. 0.8 × 5 = 4.0	9. 0.8 × 2 = 1.6
10. 0.4 × 4 = 1.6	11. 0.7 × 9 = 6.3	12. 0.8 × 8 = 6.4	13. 0.6 × 6 = 3.6	14. 0.5 × 2 = 1.0

15. 3 x 0.9 = 2.7

16. 7 x 0.2 = 1.4

17. 9 x 0.8 = 7.2

18. 8 x 0.3 = 2.4

NAME

SPM4/U8/196-197

Multiplying One-Place Decimals

Multiply.

1. $\overset{2}{3.7} \times 4 = 14.8$	2. $\overset{1}{4.6} \times 2 = 9.2$	3. $5.7 \times 3 = 17.1$	4. $2.3 \times 7 = 16.1$

5. $2.9 \times 6 = 17.4$	6. $4.6 \times 4 = 18.4$	7. $9.3 \times 8 = 74.4$	8. $5.1 \times 9 = 45.9$	9. $7.6 \times 5 = 38.0$
10. $4.8 \times 7 = 33.6$	11. $7.5 \times 7 = 52.5$	12. $9.7 \times 9 = 87.3$	13. $6.2 \times 3 = 18.6$	14. $5.7 \times 8 = 45.6$

15. $5 \times 1.2 = 6.0$ 16. $6 \times 3.6 = 21.6$ 17. $4 \times 9.2 = 36.8$

18. $6 \times 8.4 = 50.4$ 19. $9 \times 3.8 = 34.2$ 20. $5 \times 4.9 = 24.5$

SPM4/U8/198-199

Rounding Decimal Tenths to Whole Numbers

Round to the nearest whole number.

1. 3.2 → 3	2. 6.8 → 7	3. 4.5 → 5	4. 9.9 → 10	5. 2.6 → 3
6. 7.1 → 7	7. 5.6 → 6	8. 0.9 → 1	9. 3.7 → 4	10. 1.1 → 1
11. 6.2 → 6	12. 8.8 → 9	13. 5.9 → 6	14. 8.5 → 9	15. 14.2 → 14
16. 12.9 → 13	17. 0.5 → 1	18. 9.7 → 10	19. 8.6 → 9	20. 0.7 → 1

Round each to the nearest whole number of litres, kilometres, or kilograms.

21. 7.3 km → 7 km	22. 1.5 L → 2 L	23. 3.4 kg → 3 kg	24. 2.8 L → 3 L
25. 4.9 km → 5 km	26. 6.4 L → 6 L	27. 5.1 kg → 5 kg	28. 4.3 L → 4 L
29. 9.5 km → 10 km	30. 7.6 kg → 8 kg	31. 0.8 km → 1 km	32. 8.2 kg → 8 kg

NAME

SPM4/U8/200

Rounding Addends to Estimate the Sum

Round each addend to the nearest whole number.
Then add to estimate the sum.

1. 3.6 → 4 4.1 → 4 8	2. 1.7 → 2 8.9 → 9 11	3. 2.3 7.8 10	4. 6.5 4.5 12
5. 1.9 1.1 3	6. 6.5 7.8 15	7. 1.0 9.9 11	8. 5.4 8.7 14
9. 1.2 3.2 9.8 14	10. 6.3 1.3 3.5 11	11. 8.7 2.3 2.9 14	12. 4.6 2.4 3.3 10
13. 4.6 + 4.7 10	14. 5.6 + 2.1 8	15. 1.3 + 8.9 + 2.7 13	

SPM4/U8/201

Rounding Factors to Estimate the Product

Round to the nearest whole number.
Then multiply to estimate the product.

1. 2.1 → 2 3 → 3 6	2. 7.8 → 8 8 → 8 64	3. 5.6 5 30	4. 3.4 6 24
5. 1.6 8 16	6. 6.7 3 21	7. 9.1 2 18	8. 4.3 4 16
9. 5.9 6 36	10. 19.9 3 60	11. 4.5 7 35	12. 13.8 4 56
13. 32.3 5 160	14. 6.5 2 14	15. 15.2 4 60	16. 26.7 7 189

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 849 \\ 103 \\ +\ 224 \\ \hline 1176 \end{array}$

2. $\begin{array}{r} 183 \\ \times\ 5 \\ \hline 915 \end{array}$

3. $\begin{array}{r} 1102 \\ -\ 526 \\ \hline 576 \end{array}$

4. $7\overline{)420}$ = 60

5. $\begin{array}{r} 6.3 \\ +\ 7.8 \\ \hline 14.1 \end{array}$

6. $\begin{array}{r} 7.3 \\ \times\ 4 \\ \hline 29.2 \end{array}$

7. $\begin{array}{r} \$8.17 \\ -\ 3.52 \\ \hline \$4.65 \end{array}$

8. $\begin{array}{r} 2.71 \\ +\ 6.38 \\ \hline 9.09 \end{array}$

9. $\begin{array}{r} 68 \\ \times\ 7 \\ \hline 476 \end{array}$

10. $\begin{array}{r} 8.0 \\ -2.4 \\ \hline 5.6 \end{array}$

11. $120 \div 4 = 30$

12. $6 \times 4.7 = 28.2$

13. $9.31 - 5.47 = 3.84$

14. $\$8.61 + \$5.08 = \$13.69$

15. $7 \times 0.8 = 5.6$

16. $3 \times 5 \times 7 \times 2 = 210$

Solve. Show your work.

17. The mower can hold 2.3 L of fuel in its tank. Right now it has 0.5 L. How much fuel is needed to fill the tank? 1.8 L

18. One lap on the track is 0.6 km. Kevin runs 6 laps. How far has he run? 3.6 km

19. The road to York is 120 km long. The painting crew plans to paint the centre lines in 4 equal sections, with each crew member changing jobs for each section. How long will each section be? 30 km

20. Paint for the fence cost $18.46. The painter charged $40 plus $2.75 for other expenses. How much did it cost to paint the fence? $61.21

21. The auditorium holds 435 people. The school filled it for all 3 performances of the play. How many people attended? 1305

22. The land surveyor says the curved path to town is 3.14 km and the straight path is 2.87 km. How much longer is the curved path? 0.27 km

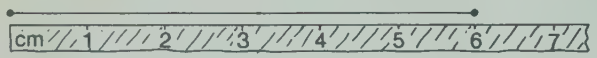
NAME _____

SPM4/U9/204-205

Measuring and Estimating in Centimetres

Use a centimetre ruler. Estimate first. Then measure the length to the nearest centimetre. Estimates will vary.

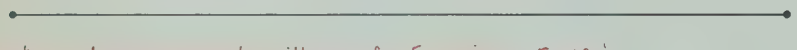
Read the ruler.

1. 

Estimate 5 cm Measurement 6 cm

2.  Est. _____ Meas. 9 cm

3.  Est. _____ Meas. 7 cm

4.  Est. _____ Meas. 10 cm

Estimates and measurements will vary for Exercises 5–10.

5. your pencil
Est. _____ Meas. _____

6. your thumb
Est. _____ Meas. _____

7. your shoe
Est. _____ Meas. _____

8. the width of your hand
Est. _____ Meas. _____

9. the width of your ruler
Est. _____ Meas. _____

10. the height of your ankle
Est. _____ Meas. _____

SPM4/U9/206

Decimetres, Centimetres, and Decimals

Complete.

1. 5 cm = 0.5 dm (1 cm = 0.1 dm)	2. 4 dm = 40 cm (1 dm = 10 cm)	3. 15 cm = 1.5 dm

4. 2.7 dm = 27 cm
5. 0.9 dm = 9 cm
6. 11 cm = 1.1 dm
7. 2 cm = 0.2 dm
8. 2.3 dm = 23 cm
9. 3 dm = 30 cm

Use a ruler. Estimate first. Then measure each.

10. the width of this page
Estimate: ____ dm or ____ cm
Measurement: 2.1 dm or 21 cm

11. the length of this page
Estimate: ____ dm or ____ cm
Measurement: 2.8 dm or 28 cm

Estimates and measurements will vary for Exercises 12 and 13.

12. the height of your knee
Estimate: ____ dm or ____ cm
Measurement: ____ dm or ____ cm

13. the length from elbow to fingertip
Estimate: ____ dm or ____ cm
Measurement: ____ dm or ____ cm

NAME

SPM4/U9/207

Metres, Centimetres, and Decimals

Complete.

1. 135 cm = 1.35 m (100 cm = 1 m)	2. 0.68 m = 68 cm (0.01 m = 1 cm)
3. 89 cm = 0.89 m	4. 1.7 m = 170 cm

5. 2.07 m = 207 cm
6. 300 cm = 3 m
7. 170 cm = 1.70 m
8. 0.8 m = 80 cm
9. 3 m = 300 cm
10. 55 cm = 0.55 m

Measure each in centimetres. Then give each length in metres. Answers for 11, 13, 14 will vary.

11. your height
12. the classroom door
13. how far you can step
14. how far you can hop
15. from the floor to the base of the chalkboard
16. from the floor to the top of the chalkboard

SPM4/U9/208-209

Metres, Decimetres, Centimetres, and Decimals

Complete.

1. 115 cm = 11.5 dm or 1.15 m	2. 72 dm = 720 cm or 7.2 m
3. 3.2 m = 320 cm or 32 dm	4. 85 cm = 8.5 dm or 0.85 m
5. 4.7 dm = 47 cm or 0.47 m	6. 7 m = 700 cm or 70 dm

7. 150 cm = 15 dm or 1.5 m
8. 12.6 dm = 126 cm or 1.26 m
9. 0.62 m = 62 cm or 6.2 dm
10. 8 dm = 80 cm or 0.80 m
11. 0.4 m = 40 cm or 4 dm
12. 70 cm = 7 dm or 0.7 m
13. 4.3 m = 430 cm or 43 dm
14. 200 cm = 20 dm or 2 m
15. 5.7 dm = 57 cm or 0.57 m
16. 50 dm = 500 cm or 5 m
17. 125 cm = 12.5 dm or 1.25 m
18. 2 m = 200 cm or 20 dm

NAME

SPM4/U9/210

Kilometres and Metres

Complete.

1. 3000 m = 3 km (1000 m = 1 km)	2. 4.2 km = 4200 m
3. 8 km = 8000 m	4. 1700 m = 1.7 km

5. 980 m = 0.98 km
6. 3.7 km = 3700 m
7. 5070 m = 5.07 km
8. 0.6 km = 600 m
9. 2.12 km = 2120 m
10. 100 m = 0.1 km
11. 3200 m = 3.2 km
12. 0.8 km = 800 m

How many kilometres is it?

13. Joe climbed to 12 000 m. 12
14. Sheila ran 3500 m. 3.5

How many metres is it?

15. We hiked 4.6 km. 4600
16. The parachutist fell 1.25 km. 1250

SPM4/U9/211

Choosing a Unit of Length

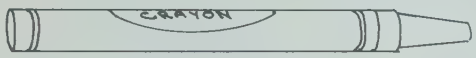
Which unit, the kilometre, the metre, or the centimetre, would you use to measure each of these?

1. length of a tennis court metre	2. diameter of a hockey puck centimetre	3. height of a house metre
4. length of a highway kilometre	5. length of a hallway metre	6. length of a shoelace centimetre
7. height of your ankle centimetre	8. height of an airplane metre (kilometre may be acceptable.)	9. height of a space satellite kilometre (metre may be acceptable)
10. distance to the next town kilometre	11. distance to the drinking fountain metre	12. distance from your lip to your chin centimetre
13. distance around your wrist centimetre	14. distance around a soccer field metre	15. distance around the world kilometre

NAME _____

Practice

Use a centimetre ruler. Estimate first.
Then measure the length to the nearest centimetre. Estimates may vary.

1. 

Estimate _____ Measurement 6 cm

2. 

Est. _____ Meas. 4 cm

3. 

Est. _____ Meas. 11 cm

4. 

Est. _____ Meas. 14 cm

5. the height of your chair seat

Est. _____ Meas. _____

6. the width of this book

Est. _____ Meas. 21 cm

Complete.

7. 70 m = 700 cm	8. 48 cm = 4.8 dm	9. 43 dm = 4.3 m
10. 3.5 dm = 35 cm	11. 6 m = 60 dm	12. 0.8 km = 800 m
13. 70 cm = 0.70 m	14. 0.38 m = 38 cm	15. 70 dm = 7 m
16. 0.9 dm = 9 cm	17. 3500 m = 3.5 km	18. 70 cm = 7 dm
19. 1.2 m = 120 cm	20. 600 cm = 6 m	21. 800 m = 0.8 km
22. 510 cm = 5.1 m	23. 0.9 m = 9 dm	24. 70 km = 70 000 m

Which unit, the centimetre, the metre, or the kilometre, would be best for measuring each of these?

25. a gerbil centimetre	26. a row boat metre	27. an airplane trip kilometre
28. the border of your province kilometre	29. a wallet centimetre	30. a rocket for a space launch metre
31. how far a car travels kilometre	32. how far you can throw a ball metre	33. how high you can reach centimetre

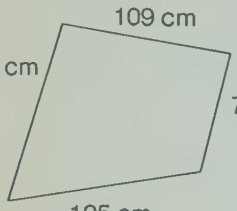
NAME

SPM4/U9/212-213

Finding the Perimeter

Find the perimeter of each.

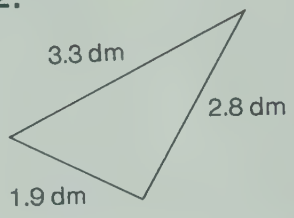
1.



13
109
78
125
119
431

431 cm

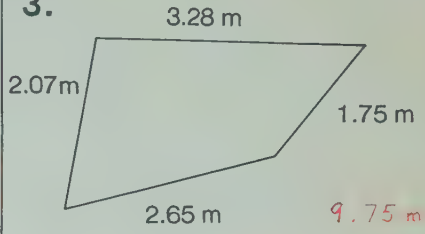
2.



3.3
2.8
1.9
8.0

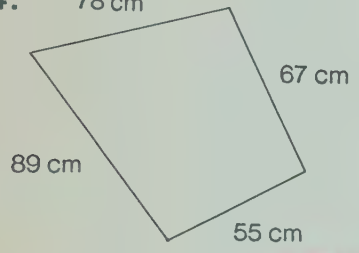
8.0 dm

3.



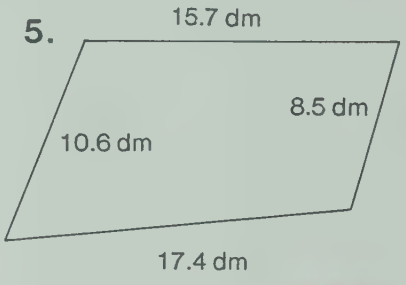
9.75 m

4.



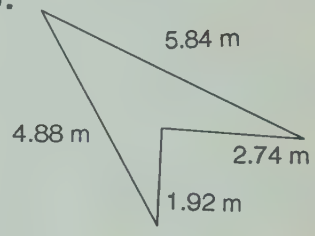
289 cm

5.



52.2 dm

6.



15.38 m

SPM4/U9/214-215

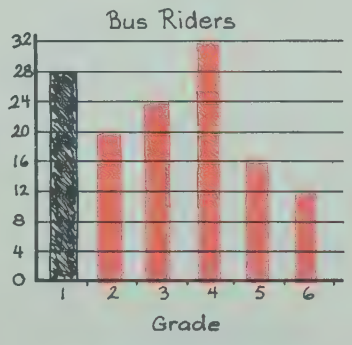
Graphing

For this information,

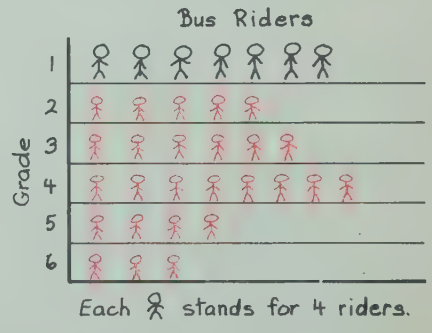
Part of the first two have been done for you

Number of students who ride a bus	
Grade 1	28
Grade 2	20
Grade 3	24
Grade 4	32
Grade 5	16
Grade 6	12

1. draw a bar graph.



2. draw a pictograph.



Use other paper.

3. Draw a bar graph and a pictograph.

Number of books read	Graphs may vary.
Grade 1	5
Grade 2	5
Grade 3	10
Grade 4	20
Grade 5	25
Grade 6	30

4. Draw a bar graph and a pictograph.

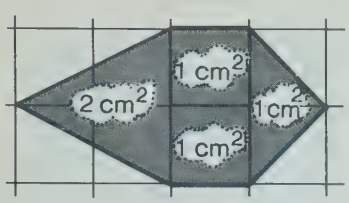
Number in each class	Graphs may vary.
Grade 1	30
Grade 2	24
Grade 3	30
Grade 4	42
Grade 5	36
Grade 6	30

NAME

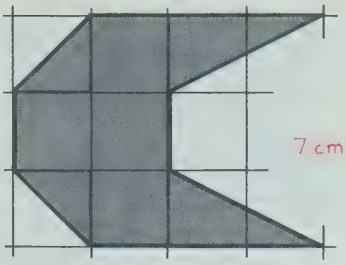
SPM4/U9/216-217

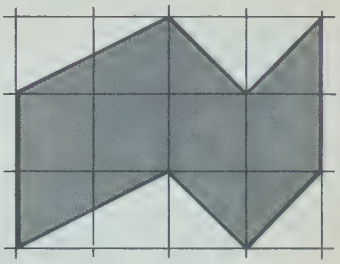
Area in Square Centimetres

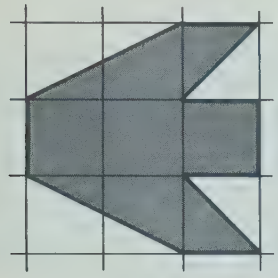
Give each area in square centimetres.

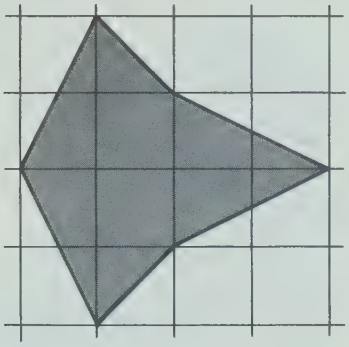
1. 

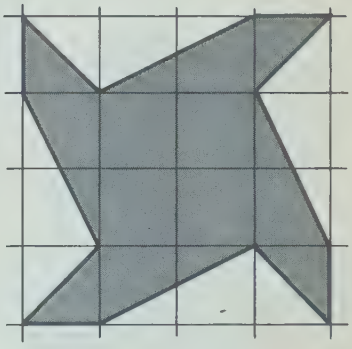
5 cm²

2. 
7 cm²

3. 
8 cm²

4. 
6 cm²

5. 
7 cm²

6. 
10 cm²

Practice

Solve. Show your work.

1. Many small boats turned out to watch the 3 d of racing. The patrol boat saw there were 115 boats on Friday, 220 on Saturday, and 316 on Sunday. How many were there in all? 651

2. The propellar shaft is 3.75 cm in diameter. The hole in the bearing is only 3.17 cm in diameter. How much must the machinist remove from the shaft for it to fit in the bearing? 0.58 cm

3. New cleats for the boat cost $7.68 each. Five are needed. How much will they cost? $38.40

4. Ian's father bought a used sail boat for $3150. He spent $1280 fixing it up. What was his total cost? $4430

5. The sailing club lays out a triangular course. The lengths of the parts are 1.7 km, 2.9 km, and 2.3 km. What is the distance around the course? 6.9 km

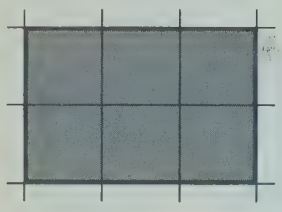
6. T-shirts with the boat club flag cost $5.85. Each of the 3 Boynton children bought one. How much did they spend? $17.55

NAME

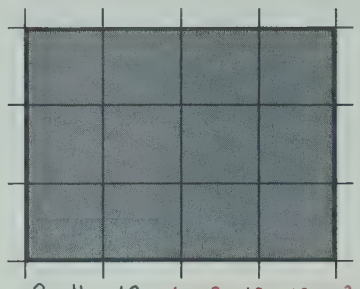
SPM4/U9/218-219

Using Multiplication to Find Area

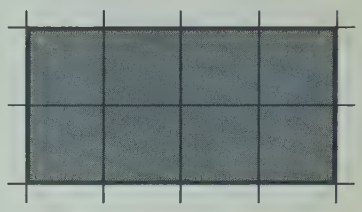
Write two multiplication sentences that give the area of each shape.

1. 

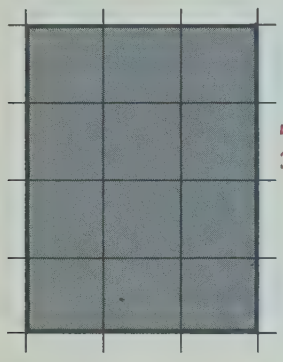
$2 \times 3 = 6$, $3 \times 2 = 6$, $6\ cm^2$

2. 

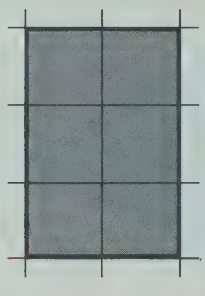
$3 \times 4 = 12$, $4 \times 3 = 12$, $12\ cm^2$

3. 

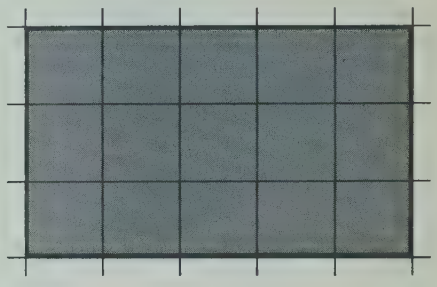
$2 \times 4 = 8$, $4 \times 2 = 8$, $8\ cm^2$

4. 

$4 \times 3 = 12$
$3 \times 4 = 12$
$12\ cm^2$

5. 

$3 \times 2 = 6$, $2 \times 3 = 6$, $6\ cm^2$

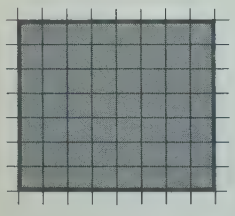
6. 

$3 \times 5 = 15$, $5 \times 3 = 15$, $15\ cm^2$

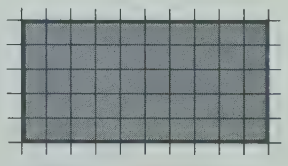
SPM4/U9/220

Area in Square Decimetres and Square Metres

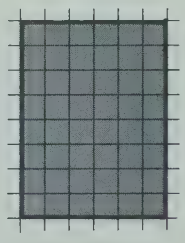
Each square represents 1 m^2. What is the area of the shape?

1. 

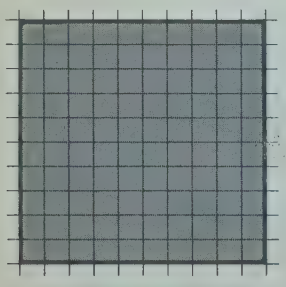
$7 \times 8 = 56$ $56\ m^2$

2. 

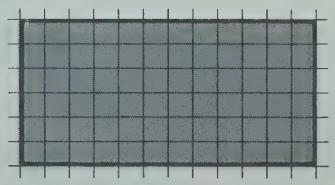
$50\ m^2$

3. 

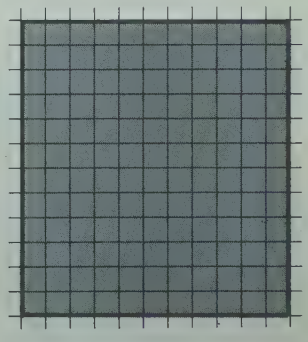
$48\ m^2$

4. 

$100\ m^2$

5. 

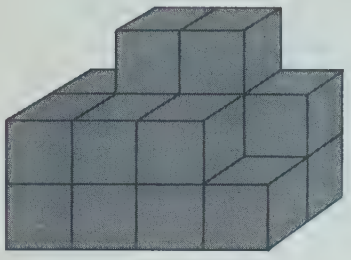
$72\ m^2$

6. 

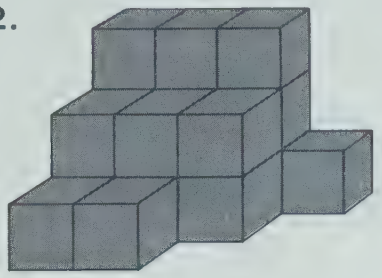
$132\ m^2$

Volume in Cubic Centimetres

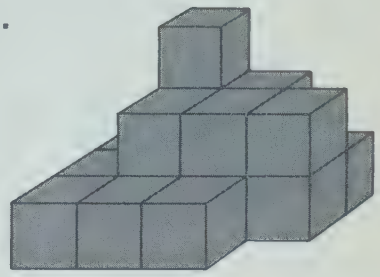
Find the volume in cubic centimetres.

1. 

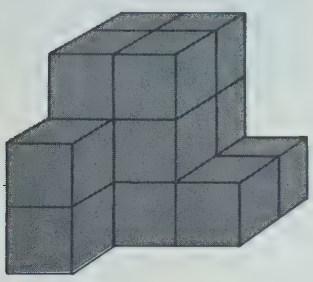
17 cm^3

2. 

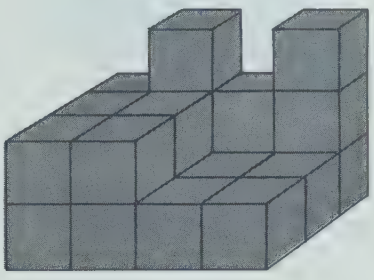
18 cm^3

3. 

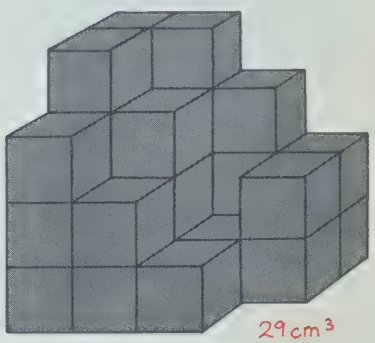
17 cm^3

4. 

16 cm^3

5. 

22 cm^3

6. 

29 cm^3

Practice

Solve. Show your work.

1. The truck had a mass of 2150 kg when empty, and 3278 kg when fully loaded. How heavy was the load? 1128 kg

2. What is the perimeter of the Johnson's terrace, if two of the sides are 8.3 m and the other two are 5.9 m? 28.4 m

3. Ray's kitten is seven months old today. Four of the months had 31 d. Three had 30 d. How many days old is the kitten? 214

4. At a special sale, each tape cassette cost $3.39. Tequi bought three. Lola bought two. Together, what did they pay? $16.95

5. The forester has 210 trees to set out in 7 long rows. How many trees should go in each row? 30

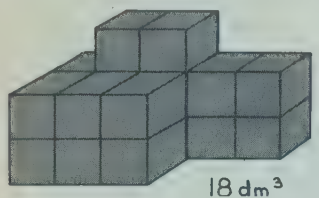
6. A carton contains 3 boxes. Each box contains 6 tins. Each tin contains 8 cookies. How many cookies are in the carton? 144

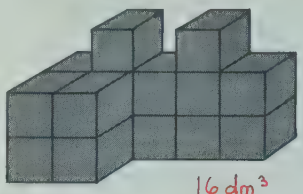
NAME

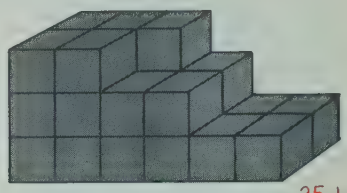
SPM4/U9/222

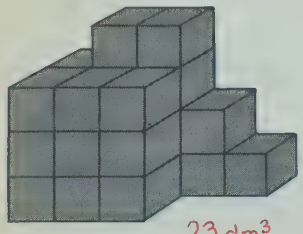
Volume in Cubic Decimetres

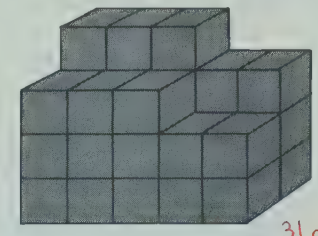
Each little cube represents 1 dm^3.
Find the volume of each solid.

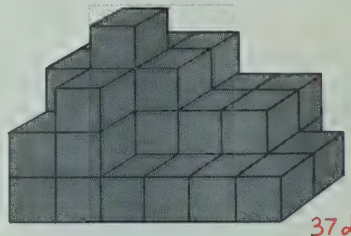
1. 
18 dm^3

2. 
16 dm^3

3. 
25 dm^3

4. 
23 dm^3

5. 
31 dm^3

6. 
37 dm^3

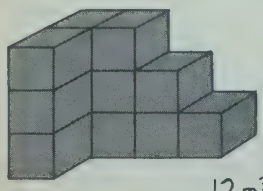
Is it smaller or larger than a cubic decimetre?

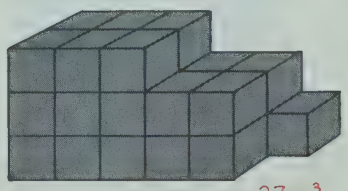
7. a soccer ball — larger
8. a Rubik's Cube™ — smaller
9. a shoe box — larger

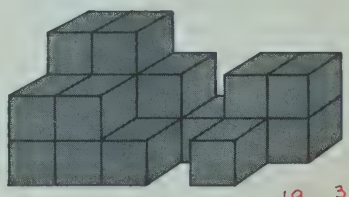
SPM4/U9/223

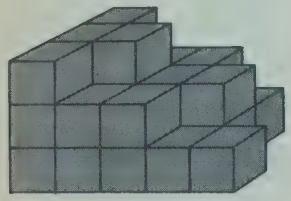
Volume in Cubic Metres

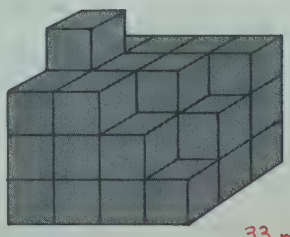
Each little cube represents 1 m^3.
Find the volume of each solid.

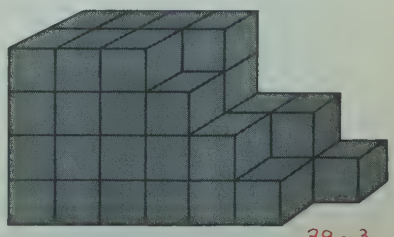
1. 
12 m^3

2. 
27 m^3

3. 
19 m^3

4. 
27 m^3

5. 
33 m^3

6. 
39 m^3

Is it smaller or larger than a cubic metre?

7. your kitchen — larger
8. the kitchen oven — smaller
9. the refrigerator — larger

NAME _____

Practice

Perform the indicated operation.

1. $816 + 273 + 549 = 1638$

2. $7.61 - 3.72 = 3.89$

3. $637 \times 3 = 1911$

4. $6\overline{)420} = 70$

5. $\$9.02 - 3.65 = \$5.37$

6. $0.8 \times 6 = 4.8$

7. $9\overline{)54} = 6$

8. $\$7.35 \times 4 = \$29.40$

9. $6.19 + 7.33 = 13.52$

10. $2002 - 714 = 1288$

11. $7 \times (46 + 31) = 539$

12. $3 \times 8 \times 9 = 216$

13. $6.80 - 4.17 = 2.63$

14. $640 \div 8 = 80$

15. $63 + 2140 + 832 = 3035$

16. $8 \times 4.2 = 33.6$

Solve. Show your work.

17. The quilt was made by sewing 5 rows of squares with 8 squares in each row. How many squares were used in the quilt? 40

18. The 4 Maguire sisters agree to share equally the 280 newspapers they have to deliver. How many will each have? 70

19. When Sian chose from the menu, she picked an appetizer for $1.25. Her main course cost $4.85. Her dessert cost $1.10. What was the price of her meal? $7.20

20. Nigel began the day with $7.35. By noon he had spent $2.80 on food. During the afternoon he spent $1.54 for magazines. How much did he have at the end of the day? $3.01

21. A shelf had to hold 8 boxes of about 3.5 kg each. How many kilograms did the shelf have to hold? 28 kg

22. The sides of the garden measure 17 m, 41 m, 18 m, and 30 m. What is the perimeter? 106 m

NAME

SPM4/U10/228-229

Multiplying Two-Digit Numbers

Multiply.

1. $\overset{3}{3}7 \times 5 = 185$	2. $\overset{3}{6}9 \times 4 = 276$	3. $82 \times 6 = 492$	4. $57 \times 3 = 171$

5. $38 \times 3 = 114$	6. $94 \times 5 = 470$	7. $27 \times 4 = 108$	8. $85 \times 7 = 595$	9. $91 \times 8 = 728$
10. $52 \times 5 = 260$	11. $40 \times 4 = 160$	12. $93 \times 9 = 837$	13. $67 \times 2 = 134$	14. $42 \times 3 = 126$

15. $8 \times 28 = 224$

16. $6 \times 17 = 102$

17. $9 \times 74 = 666$

Practice

Solve. Show your work.

1. Rolf won the race in 12.8 s. Jorge was 1.3 s slower. How long did it take Jorge to run the race? 14.1 s

2. I can get 25 pennies for one quarter. How many pennies can I get for 7 quarters? 175

3. Sylvia bought 5 packages of hamburger. The labels showed that each package held 1.6 kg. How much hamburger did Sylvia buy? 8 kg

4. The show costs $4.25 for mom and $1.75 for me. How much do we need so that we can go to the show? $6.00

5. Hart thought he had written about 3 paragraphs on each page, 6 pages for each chapter, and 12 chapters for the book. About how many paragraphs would this be for the book? 216

6. How many eggs are there in 9 dozen? 108

NAME

SPM4/U10/230-231

Multiplying Three-Digit Numbers

Multiply.

1. 689 × 3 = 2067	2. 471 × 4 = 1884	3. 459 × 2 = 918	4. 405 × 7 = 2835	5. 356 × 5 = 1780
6. 835 × 4 = 3340	7. 703 × 3 = 2109	8. 593 × 8 = 4744	9. 610 × 6 = 3660	10. 176 × 9 = 1584
11. 527 × 6 = 3162	12. 719 × 7 = 5033	13. 296 × 4 = 1184	14. 384 × 9 = 3456	15. 209 × 5 = 1045
16. 274 × 8 = 2192	17. 145 × 3 = 435	18. 687 × 2 = 1374	19. 823 × 7 = 5761	20. 349 × 6 = 2094

SPM4/U10/234-235

Estimating Products

Round the two-digit factors to the nearest ten.
Round the three-digit factors to the nearest hundred.
Then multiply to estimate each product.

1. 78 → 80 × 4 = 320	2. 284 → 300 × 6 = 1800	3. 57 × 2 = 120	4. 479 × 5 = 2500
5. 37 × 9 = 360	6. 28 × 3 = 90	7. 93 × 4 = 360	8. 55 × 7 = 420
9. 467 × 8 = 4000	10. 91 × 9 = 810	11. 62 × 2 = 120	12. 708 × 5 = 3500
13. 129 × 7 = 700	14. 37 × 6 = 240	15. 643 × 3 = 1800	16. 189 × 8 = 1600

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 13.91 \\ +\ 4.73 \\ \hline 18.64 \end{array}$

2. $\begin{array}{r} \$8.61 \\ -\ 3.43 \\ \hline \$5.18 \end{array}$

3. $\begin{array}{r} 7.6 \\ \times\ 5 \\ \hline 38 \end{array}$

4. $7\overline{)490}$ 70

5. $\begin{array}{r} 12.07 \\ -\ 3.94 \\ \hline 8.13 \end{array}$

6. $\begin{array}{r} \$875 \\ \times\ 6 \\ \hline \$5250 \end{array}$

7. $\begin{array}{r} 207 \\ 914 \\ +\ 683 \\ \hline 1804 \end{array}$

8. $\begin{array}{r} 5001 \\ -\ 426 \\ \hline 4575 \end{array}$

9. $8\overline{)480}$ 60

10. $\begin{array}{r} 348 \\ \times\ 6 \\ \hline 2088 \end{array}$

11. $3 \times (46 - 27)$ 57

12. $8 \times 3 \times 2 \times 7$ 336

13. $\$467 + \$219 + \$83$ $769

14. $27 \div 3$ 9

15. 9×1.6 14.4

16. $4039 - 2777$ 1262

Solve. Show your work.

17. John found three good paperbacks at the book store. They cost $2.25, $1.95 and $0.89. How much did all three cost? $5.09

18. An egg crate holds 8 layers, each with 72 eggs. How many eggs does the crate hold? 576

19. The tourist bureau gave 400 maps to Memorial School. The 8 classes will share them equally. How many will each class get? 50

20. When Lief put his toy train together, he used an engine which is 3.7 cm long and 3 cars each 2.9 cm long. How long is the train? 12.4 cm

21. A bicycle tour was planned so that 1000 km would be travelled in 8 d. After 7 d, the bicyclists had travelled 775 km, having to stay indoors for one day because of bad weather. How many kilometres remained to be travelled? 225 km

22. Mr. Zitzlsperger has a chance to take his 4 children along on a business trip. Air fare for each would be $128. How much would it cost to take the 4 children along? $512

NAME

SPM4/U10/236-237

Multiplying Two-Digit Numbers by Multiples of Ten

Multiply.

1. 35 × 80 = 2800
   - 0 x 35
   - 8 tens x 35 = 280 tens
2. 62 × 30 = 1860
   - 0 x 62
   - 3 tens x 62 = 186 tens
3. 48 × 50 = 2400
4. 13 × 70 = 910
5. 47 × 20 = 940
6. 28 × 60 = 1680
7. 73 × 40 = 2920
8. 85 × 30 = 2550
9. 98 × 80 = 7840
10. 24 × 40 = 960
11. 63 × 90 = 5670
12. 56 × 60 = 3360
13. 79 × 70 = 5530
14. 87 × 50 = 4350

SPM4/U10/238-239

Multiplying Two-Digit Numbers by Two-Digit Numbers

Multiply.

1. 26 × 37 = 962
   - 182 ← 7 x 26
   - 780 ← 30 x 26
2. 38 × 24 = 912
   - 152 ← 4 x 38
   - 760 ← 20 x 38
3. 43 × 83 = 3569
4. 59 × 19 = 1121
5. 76 × 45 = 3420
6. 17 × 36 = 612
7. 85 × 19 = 1615
8. 38 × 47 = 1786
9. 46 × 25 = 1150
10. 72 × 34 = 2448
11. 80 × 68 = 5440
12. 95 × 23 = 2185
13. 48 × 35 = 1680
14. 63 × 52 = 3276
15. 47 × 79 = 3713

NAME

SPM4/U10/242-243

Multiplying Three-Digit Numbers by Multiples of Ten

Multiply.

1. 784 × 30 = 23 520
   (0 × 784; 3 tens × 784)
2. 129 × 50 = 6450
   (0 × 129; 5 tens × 129)
3. 247 × 40 = 9880
4. 365 × 20 = 7300
5. 826 × 70 = 57 820
6. 247 × 60 = 14 820
7. 758 × 50 = 37 900
8. 489 × 40 = 19 560
9. 718 × 90 = 64 620
10. 924 × 80 = 73 920
11. 316 × 60 = 18 960
12. 639 × 30 = 19 170
13. 107 × 80 = 8560
14. 517 × 70 = 36 190

SPM4/U10/244-245

Multiplying Three-Digit Numbers by Two-Digit Numbers

Multiply.

1. 314 × 29 = 9106
   (9 × 314 = 2826; 20 × 314 = 6280)
2. 268 × 63 = 16 884
   (3 × 268 = 804; 60 × 268 = 16 080)
3. 492 × 17 = 8364
4. 856 × 26 = 22 256
5. 145 × 46 = 6670
6. 739 × 23 = 16 997
7. 519 × 38 = 19 722
8. 360 × 93 = 33 480
9. 463 × 48 = 22 224
10. 593 × 59 = 34 987
11. 673 × 72 = 48 456
12. 204 × 85 = 17 340
13. 178 × 18 = 3204
14. 390 × 66 = 25 740

NAME _____

Practice

Perform the indicated operation.

1. 305×7 — 2135
2. $3.9 + 6.8$ — 10.7
3. 481×30 — 14 430
4. $9\overline{)36}$ — 4
5. $\$10.08 - 4.92$ — \$ 5.16
6. $218 + 763 + 495$ — 1476
7. 28×65 — 1820
8. $\$12.97 - 8.38$ — \$ 4.59
9. $9\overline{)540}$ — 60
10. 285×43 — 12 255
11. $27 \times (238 - 146)$ — 2484
12. $8 \times 9 \times 3 \times 7$ — 1512
13. 40×123 — 4920
14. $810 \div 9$ — 90
15. $2718 - 945$ — 1773
16. $\$486 + \$211 + \$573$ — \$1270

Solve. Show your work.

17. Three charter airplanes, each carrying 276 passengers, are leaving for a holiday in Montreal. How many passengers are on the airplanes? 828

18. Marcia went to the Fair with \$10.00. The train ticket cost \$2.47. The admission charge was \$1.50. How much did she have left to spend? \$6.03

19. Mrs. Filippelli was given 45 ticket books for her classes. Each book has 12 tickets. How many tickets is this in all? 540

20. 300 boys and girls are going to visit Upper Canada Village. Each bus holds 50 people. How many buses are needed? 6

21. The house has 38 windows. Each window has 12 panes of glass. How many panes is this? 456

22. The three girls running the legs of the relay had the following times: 6.7 s, 5.9 s, and 6.3 s. What is the total of these times? 18.9 s

NAME

SPM4/U11/250-251

Using Multiplication to Divide

Find the quotient and the remainder.

1. $6\overline{)33}$ = 5 R 3
   30 ← 6 x 5
   3
2. $9\overline{)68}$ = 7 R 5
   63 ← 9 x 7
   5
3. $3\overline{)20}$ = 6 R 2
4. $7\overline{)38}$ = 5 R 3
5. $4\overline{)15}$ = 3 R 3
6. $8\overline{)59}$ = 7 R 3
7. $2\overline{)19}$ = 9 R 1
8. $5\overline{)42}$ = 8 R 2
9. $8\overline{)30}$ = 3 R 6
10. $4\overline{)30}$ = 7 R 2
11. $7\overline{)67}$ = 9 R 4
12. $9\overline{)53}$ = 5 R 8
13. $6\overline{)50}$ = 8 R 2
14. $5\overline{)36}$ = 7 R 1

Practice

Solve. Show your work.

1. Sixteen contestants are entered in each of the 8 divisions of the tournament. How many have entered the tournament? 128

2. The temperature in the electric furnace is 875°C. When it cools 180°, Professor O'Day will open it. At what temperature will it be then? 695°C

3. Curtis has to bicycle 1.8 km to visit Luke. From Luke's to Fran's it is 2.2 km. From Fran's to Jeremy's it is 1.7 km. How far must Curtis bicycle to visit all three friends? 5.7 km

4. The 63 student visitors from Mexico are to be carried from the airport in 9 vans. The same number are to be carried in each of the vans. How many should each van carry? 7

5. An excursion fare to Ireland is $435 return. Mr. O'Leary bought 17 seats for his travel agency. What did this cost? $7395

6. A full 747 airliner can carry 428 passengers. The smaller 727 carries only 144. How many more people can the 747 carry? 284

NAME

SPM4/U11/252

Sharing Tens

Divide.

1. $2\overline{)60}$ → 30 2 x 3 tens = 6 tens	2. $3\overline{)90}$ → 30 3 x 3 tens = 9 tens	3. $3\overline{)60}$ → 20	4. $6\overline{)60}$ → 10
5. $7\overline{)70}$ → 10	6. $4\overline{)80}$ → 20	7. $5\overline{)50}$ → 10	8. $2\overline{)40}$ → 20
9. $2\overline{)80}$ → 40	10. $3\overline{)90}$ → 30	11. $2\overline{)60}$ → 30	12. $8\overline{)80}$ → 10

SPM4/U11/253

Sharing Tens and Ones

Divide.

1. $4\overline{)84}$ → 21 20 (1) 80 ← 4 x 20 4 4 ← 4 x 1 0	2. $3\overline{)96}$ → 32 30 (2) 90 ← 3 x 30 6 6 0	3. $2\overline{)68}$ → 34	4. $6\overline{)66}$ → 11	
5. $2\overline{)86}$ → 43	6. $4\overline{)48}$ → 12	7. $3\overline{)69}$ → 23	8. $4\overline{)84}$ → 21	9. $2\overline{)88}$ → 44
10. $3\overline{)93}$ → 31	11. $7\overline{)77}$ → 11	12. $3\overline{)36}$ → 12	13. $4\overline{)88}$ → 22	14. $2\overline{)84}$ → 42

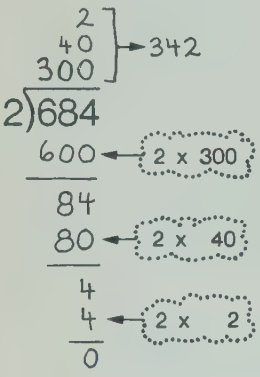
NAME

SPM4/U11/254-255

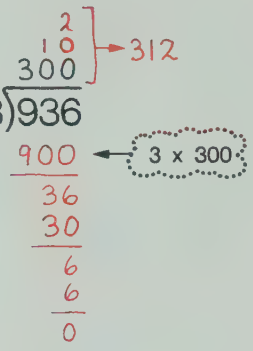
Sharing Hundreds, Tens, and Ones

Divide.

1. $2\overline{)684}$



2. $3\overline{)936}$



3. $4\overline{)480}$ 120

4. $2\overline{)286}$ 143

5. $3\overline{)366}$ 122

6. $6\overline{)660}$ 110

7. $4\overline{)844}$ 211

8. $2\overline{)842}$ 421

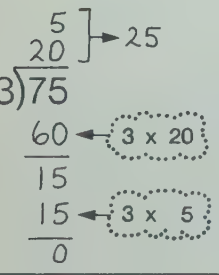
9. $3\overline{)693}$ 231

SPM4/U11/256-257

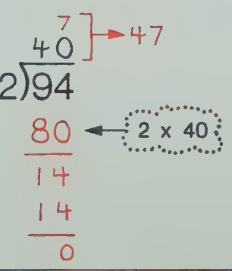
Regrouping Tens

Divide.

1. $3\overline{)75}$



2. $2\overline{)94}$



3. $4\overline{)52}$ 13

4. $3\overline{)87}$ 29

5. $2\overline{)56}$ 28

6. $7\overline{)98}$ 14

7. $5\overline{)70}$ 14

8. $6\overline{)84}$ 14

9. $4\overline{)72}$ 18

NAME _____

Practice

Perform the indicated operation.

1. $\begin{array}{r} 8.35 \\ -\ 4.78 \\ \hline 3.57 \end{array}$

2. $\begin{array}{r} \$2.18 \\ +\ 9.75 \\ \hline \$11.93 \end{array}$

3. $2\overline{)46}$ = 23

4. $3\overline{)693}$ = 231

5. $\begin{array}{r} 286 \\ \times\ 7 \\ \hline 2002 \end{array}$

6. $\begin{array}{r} 72 \\ \times\ 48 \\ \hline 3456 \end{array}$

7. $\begin{array}{r} \$4286 \\ +\ 5192 \\ \hline \$9478 \end{array}$

8. $7\overline{)84}$ = 12

9. $\begin{array}{r} \$8.62 \\ \times\ \ 8 \\ \hline \$68.96 \end{array}$

10. $\begin{array}{r} 402 \\ -\ 86 \\ \hline 316 \end{array}$

11. $57 \div 3 = 19$

12. $17 \times 258 = 4386$

13. $76 \div 4 = 19$

14. $2117 - 840 = 1277$

15. $(219 - 187) \times 24 = 768$

16. $6 \times (4.7 + 9.3) = 84.0$

17. $3 \times 8 \times 9 \times 7 = 1512$

Solve. Show your work.

18. What is the perimeter of a triangular city block whose sides are 217 m, 421 m, and 364 m? 1002 m

19. How many eggs are there in 16 dozen? 192

20. The January blizzard left 78.4 cm of snow in Regina. By the weekend, the level was down to 49.8 cm. How much snow had melted? 28.6 cm

21. Each of 6 boys raised the same amount for the project. The total amount was \$96. How much did each boy raise? \$16

22. The inside of the movie theatre was long and narrow. It had 38 rows of seats, but only 8 seats in each row. How many seats were in the theatre? 304

23. When Mrs. Potts ordered furniture for the school, the price was \$2785. The discount to the school was \$496. How much did the school have to pay? \$2289

NAME

SPM4/U11/260-261

Sharing Hundreds, Regrouping Tens

Divide.

1. $2\overline{)496}$

8
40
200 → 248

400 ← 2 x 200
96
80 ← 2 x 40
16
16 ← 2 x 8
0

2. $4\overline{)852}$

3
10
200 → 213

800 ← 4 x 200
52
40
12
12
0

3. $3\overline{)687}$ 229

4. $7\overline{)791}$ 113

5. $3\overline{)951}$ 317

6. $4\overline{)472}$ 118

7. $2\overline{)652}$ 326

8. $3\overline{)375}$ 125

9. $4\overline{)892}$ 223

SPM4/U11/262-263

Regrouping Hundreds

Divide.

1. $4\overline{)248}$

2
60 → 62

240 ← 4 x 60
8
8 ← 4 x 2
0

2. $2\overline{)186}$

3
90 → 93

180 ← 2 x 90
6
6
0

3. $3\overline{)186}$ 62

4. $7\overline{)287}$ 41

5. $5\overline{)455}$ 91

6. $6\overline{)186}$ 31

7. $3\overline{)216}$ 72

8. $8\overline{)568}$ 71

9. $9\overline{)729}$ 81

NAME

SPM4/U11/264-265

Regrouping Hundreds, Regrouping Tens

Divide.

1. $3\overline{)448}$

9
40 → 149 R1
100

300 ← 3 x 100
148
120 ← 3 x 40
28
27 ← 3 x 9
1

2. $2\overline{)795}$

7
90 → 397 R1
300

600 ← 2 x 300
195
180
15
14
1

3. $4\overline{)958}$ 239 R2

4. $7\overline{)952}$ 136

5. $8\overline{)984}$ 123

6. $6\overline{)892}$ 148 R4

7. $3\overline{)737}$ 245 R2

8. $2\overline{)950}$ 475

9. $9\overline{)663}$ 73 R6

SPM4/U11/266-267

Finding an Average

Divide to find an average for each.

1. 6 pairs of shoes cost $210.
The average cost is $35.

5
30 → 35
$6\overline{)210}$
180
30
30
0

2. 189 points were scored in 9 football games.
The average number scored each game was 21.

1
20 → 21
$9\overline{)189}$
180
9
9
0

3. 280 children rode on 5 buses. 56
The average number on each bus was 56.

4. 105 nightcrawlers were found in 7 nights. 15
The average number found each night was 15.

5. 280 sandwiches were ordered by the 8 classes. 35
The average number ordered by each class was 35.

6. In 3 h, the telethon received 825 pledges. 275
The average number of pledges each hour was 275.

NAME

SPM4/U11/268-269

A Shorter Form for Division

Divide.

1. $7\overline{)365}$ — 52 R1
   - 350 ← 7 × 50
   - 15
   - 14 ← 7 × 2
   - 1

2. $6\overline{)456}$ — 76
   - 420 ← 6 × 70
   - 36
   - 36
   - 0

3. $2\overline{)305}$ — 152 R1

4. $3\overline{)801}$ — 267

5. $8\overline{)167}$ — 20 R7

6. $5\overline{)438}$ — 87 R3

7. $7\overline{)125}$ — 17 R6

8. $4\overline{)236}$ — 59

9. $9\overline{)350}$ — 38 R8

10. $8\overline{)428}$ — 53 R4

11. $4\overline{)104}$ — 26

12. $3\overline{)456}$ — 152

13. $5\overline{)285}$ — 57

14. $6\overline{)839}$ — 139 R5

Practice

Solve. Show your work.

1. Yuri's scores on 7 tests totalled 595 points. What was his average score? 85

2. Each train ticket costs $42. The club needs 27 tickets. How much will they cost? $1134

3. The restaurant spent $2348 for labor, $1941 for food, and $3728 for other expenses this month. What was its total cost? $8017

4. Judd began his jewellery project with 76.8 cm of silver wire. There were 57.9 cm when he finished. How much wire did he use? 18.9 cm

5. A cucumber is 20.9 cm long. Yesterday it was 17.6 cm long. How much did it grow in one day? 3.3 cm

6. When 516 school children are divided as evenly as possible into 8 groups, how many will each group have? 4 groups will have 64 and 4 groups will have 65.

NAME _____

Practice

Perform the indicated operation.

1. $3.64 + 7.28$ = 10.92

2. 60×7 = 420

3. $\$11.94 - 3.27$ = \$8.67

4. $4\overline{)416}$ = 104

5. 648×27 = 17 496

6. $803 - 75$ = 728

7. $2184 + 906 + 1375$ = 4465

8. $4\overline{)268}$ = 67

9. $8\overline{)215}$ = 26 R7

10. $7.8 - 2.9$ = 4.9

11. $420 \div 7$ = 60

12. 83×41 = 3403

13. $\$621 + \$842 + \$917$ = \$2380

14. $4.73 - 2.68$ = 2.05

15. $2 \times 8 \times 40$ = 640

16. $416 \div (2.3 + 4.7)$ = 59 R3

Solve. Show your work.

17. Ariana and her friend are going on a ski trip. Each will rent equipment for \$7.95, buy lift tickets for \$12.50, and pay driving costs of \$8.55. What will the trip cost each girl? \$29.00

18. Mrs. Diamantopoulas baked 350 pastries. She wrapped 8 to a paper plate for the bake sale. How many plates did she fill? 43

19. The petition had 315 pages with 32 names on each page. How many names were on the petition? 10 080

20. The card has a length of 7.5 cm and a width of 5.2 cm. What is its perimeter? 25.4 cm

21. At noon the temperature was 31.3°C. By evening it was 27.6°C. How much did it drop? 3.7°C

22. The children lined up in 7 rows of 45 each. How many children were there? 315

NAME _____

SPM4/U12/272-275

Small Amounts

Would you measure length, capacity, mass, or time?

1. How much cough syrup is in a spoon? capacity	2. How light is a maple leaf? mass	3. How long is the beak of a chicken? length
4. How long does it take to fall to the ground? time	5. How much water is in an eye dropper? capacity	6. How much ribbon is on a spool? length
7. How far does a snail crawl? length	8. How long does it take to start a car? time	9. How much tea is in a tea bag? mass
10. How heavy is a bee? mass	11. How far does a bee travel? length	12. How much honey is in a bee hive? capacity (or mass)
13. How long is a TV commercial? time	14. How thin is a human hair? length	15. How much of a load is the truck carrying? mass (or capacity)

SPM4/U12/276-277

Units of Time

Complete.

1. 1 min = 60 s 1 h = 60 min 1 d = 24 h 1 week = 7 d 1 year = 365 d	2. 7 min = 420 s 4. 2 h 8 min = 128 min 6. 100 s = 1 min 40 s	3. 400 d = 1 year 35 d 5. 50 h = 2 d 2 h 7. 3 weeks 2 d = 23 d

8. 3 h = 180 min
9. 4 d = 96 h
10. 150 s = 2 min 30 s
11. 10 weeks = 70 d
12. 2 d 12 h = 60 h
13. 15 d = 2 weeks 1 d
14. 130 min = 2 h 10 min
15. 30 h = 1 d 6 h
16. 4 weeks 3 d = 31 d
17. 2 years = 730 d

NAME

The 24-Hour Clock

What would a 12-hour clock show for

1. 20:30? 8:30 p.m.	2. 06:15? 6:15	3. 22:00? 10:00 p.m.
4. 01:30? 1:30 a.m.	5. 15:15? 3:15 p.m.	6. 12:45? 12:45 p.m.
7. 4 h later than 13:00? 5:00 p.m.	8. 2 h 30 min earlier than 10:45? 8:15 a.m.	9. 5 h 40 min later than 09:00? 2:40 p.m.

What would a 24-hour clock show for

10. 9:30 a.m.? 09:30	11. 7 p.m.? 19:00	12. 5:20 p.m.? 17:20
13. 9:05 p.m.? 21:05	14. 11:45 a.m.? 11:45	15. 12:30 a.m.? 00:30
16. 4 h later than 1 p.m.? 17:00	17. 2 h 30 min earlier than 10:45 a.m.? 08:15	18. 5 h 40 min later than 9 a.m.? 14:40

Practice

Solve. Show your work.

1. The ferry boat has been bringing vacationers to the island. On two trips it was full with 280 passengers. On the third trip it had 217 passengers. How many did it carry in all? 777

2. The planners for the political rally expected 7500 people. Actually, 1785 fewer than this attended. How many came to the rally. 5715

3. The car rental people charged Mr. Berend 9¢/km. He drove 576 km. How much did this cost? $51.84

4. Pete's group began its hike at 10:15 a.m. The boys finished 2 h 20 min later. What time was it then? 12:35 p.m.

5. Aunt Matty left $588 to her 3 nieces. They shared it equally. How much did each receive? $196

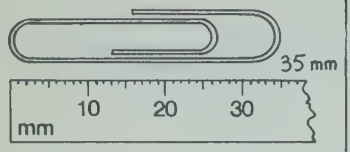
6. The plant's growth in the past 2 d was 4.19 cm and 6.78 cm. What was the total growth? 10.97 cm

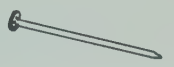
NAME

SPM4/U12/280

Length in Millimetres

Measure each in millimetres.

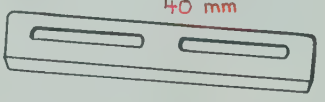
1. 

2. 
20 mm

Use a ruler.

3. 
30 mm

4. 
25 mm

5. 
40 mm

6. 
15 mm

Choose the best estimate for

7. the diameter of a penny.

35 mm	20 mm	10 mm

20 mm

8. the height of an ant.

1 mm	1 cm	15 mm

1 mm

9. length of a front tooth.

1 mm	1 cm	100 mm

1 cm

10. thickness of your ear lobe.

1 mm	1 cm	5 mm

5 mm

SPM4/U12/281

Four Units of Length

Which unit, the millimetre, the centimetre, the metre, or the kilometre, is best for measuring

1. the length of a basketball court? metre	2. the distance from Halifax kilometre to Fredericton?	3. the thickness of a piece millimetre of cardboard?

4. the perimeter of a garden? metre

5. the length of an envelope? centimetre

6. the length of a dog's tail? centimetre

7. the length of the eye of a needle? millimetre

8. the length of a train ride? kilometre

9. the length of a train? metre

Choose the best estimate for

10. the length of a ski.

150 mm	150 cm	150 m

150 cm

11. the length of a piece of chalk.

80 mm	80 cm	80 km

80 mm

12. the height of a ceiling.

3 cm	3 m	3 km

3 m

13. the length of a country road.

10 mm	10 m	10 km

10 km

NAME _____

Practice

Would you measure length, capacity, mass, or time to find

1. how much milk a kitten drinks? capacity
2. how heavy a safety pin is? mass
3. how long to make a necklace? time
4. the thickness of a finger? length
5. the amount of water a sponge holds? capacity
6. how long between blinks of an eye? time

Complete.

7. 2 min = 120 s
8. 30 h = 1 d 6 h
9. 48 months = 4 years
10. 7 weeks = 49 d
11. 30 d = 4 weeks 2 d
12. 180 min = 3 h
13. 3 d 8 h = 80 h
14. 1 year = 365 d

What would a 12-hour clock show for

15. 03:00? 3:00 a.m.
16. 20:10? 8:10 p.m.
17. 14:40? 2:40 p.m.
18. 2 h 30 min later than 08:15? 10:45 a.m.
19. 4 h 20 min earlier than 13:40? 9:20 a.m.
20. 5 h 25 min earlier than 22:50? 5:25 p.m.

What would a 24-hour clock show for

21. 12 noon? 12:00
22. 7:15 a.m.? 07:15
23. 9:30 p.m.? 21:30
24. 3 h later than 5:10 p.m.? 20:10
25. 2 h 15 min earlier than 1:30 p.m.? 11:15
26. 6 h 10 min later than 10:20 a.m.? 16:30

Use a ruler. Measure each in millimetres.

27. 45 mm
28. 65 mm

Which unit, the millimetre, the centimetre, the metre, or the kilometre, is best for measuring

29. the distance travelled by a hot-air baloon? kilometre
30. the length of an eyelash? centimetre
31. the height of a telephone pole? metre

Choose the best estimate for

32. the thickness of pencil lead.

1 mm	5 mm	1 cm

1 mm

33. the length of a hockey stick.

2 cm	2 m	2 km

2 m

34. the height of a foot stool.

40 mm	40 cm	1 m

40 cm

35. the width of a shoe.

8 mm	8 cm	80 cm

8 cm

NAME _____

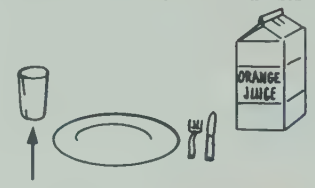
SPM4/U12/282-283

Capacity in Millilitres and Litres

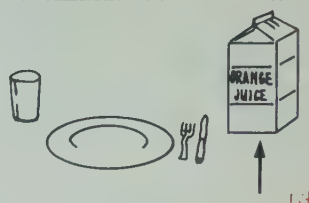
Which unit, the millilitre or the litre, is better for measuring the capacity of the following?

1. 

litre

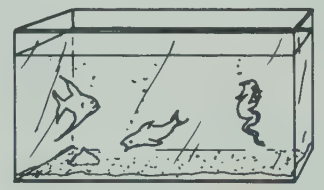
2. 

millilitre

3. 

litre

4. 
millilitre

5. 
litre

6. 
litre

Use mL or L to complete each sentence.

7. Justin squeezed 30 mL of juice from the orange.

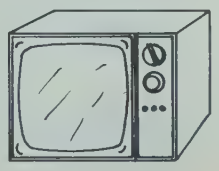
8. Pamela added 2 L of antifreeze to the car radiator.

SPM4/U12/284-285

Mass in Grams and Kilograms

Which unit, the gram or the kilogram, is better for measuring the mass of the following?

1. 
gram

2. 
kilogram

3. 
gram

4. 
kilogram

5. 
gram

6. 
Kilogram

Use g or kg to complete each sentence.

7. The box held 300 g of cereal.

8. Al's goal was to lose 1 kg each week.

NAME

SPM4/U12/286

Millilitres and Litres

Complete.

1. 5 L 35 mL = 5035 mL (1 L = 1000 mL)	2. 7895 mL = 7 L 895 mL (1000 mL = 1 L)
3. 3 L = 3000 mL	4. 6450 mL = 6 L 450 mL

5. 8 L = 8000 mL
6. 4000 mL = 4 L
7. 9000 mL = 9 L
8. 2 L = 2000 mL
9. 3500 mL = 3 L 500 mL
10. 4 L 5 mL = 4005 mL
11. 5 L 350 mL = 5350 mL
12. 1950 mL = 1 L 950 mL
13. 2050 mL = 2 L 50 mL
14. 3 L 675 mL = 3675 mL

SPM4/U12/287

Grams and Kilograms

Complete.

1. 6208 g = 6 kg 208 g (1000 g = 1 kg)	2. 4 kg 500 g = 4500 g (1 kg = 1000 g)
3. 2000 g = 2 kg	4. 7 kg 50 g = 7050 g

5. 5000 g = 5 kg
6. 3 kg = 3000 g
7. 6 kg = 6000 g
8. 9000 g = 9 kg
9. 1 kg 900 g = 1900 g
10. 4004 g = 4 kg 4 g
11. 3205 g = 3 kg 205 g
12. 8 kg 25 g = 8025 g
13. 5 kg 750 g = 5750 g
14. 2075 g = 2 kg 75 g

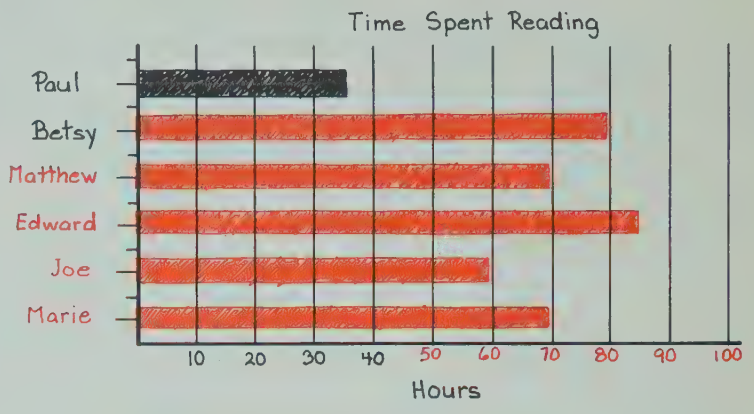
NAME

Working with Graphs

Draw a graph for the information in each exercise.

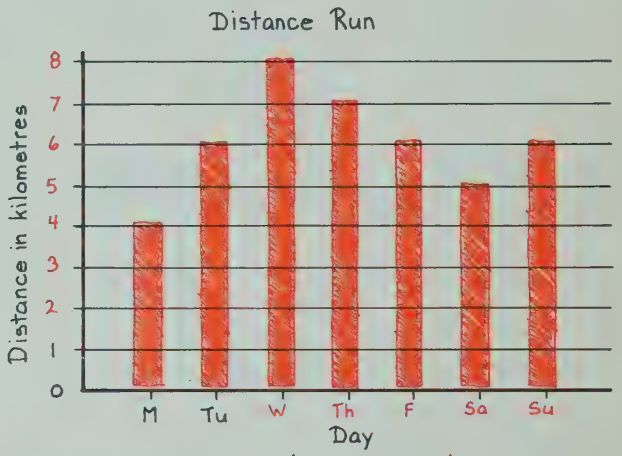
1. Time spent reading in one month

Paul	35 h
Betsy	80 h
Matthew	70 h
Edward	85 h
Joe	60 h
Marie	70 h



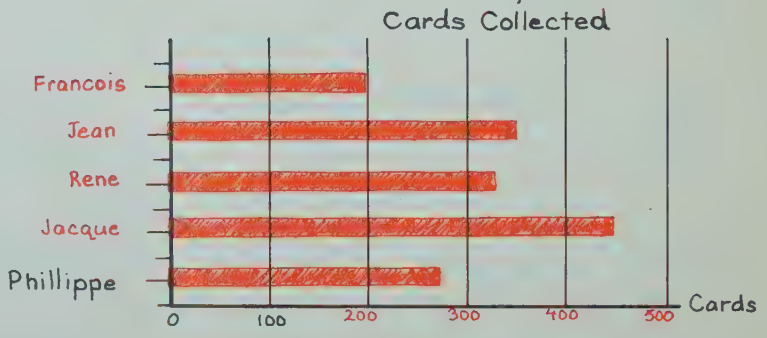
2. Distance run by Jan each day

Monday	4 km
Tuesday	6 km
Wednesday	8 km
Thursday	7 km
Friday	6 km
Saturday	5 km
Sunday	6 km



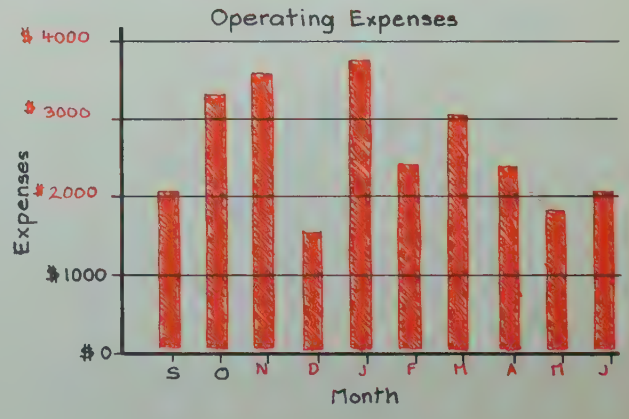
3. Number of hockey cards collected

Francois	200
Jean	350
Rene	325
Jacque	450
Phillippe	275



4. Operating expenses during school year

Sept.	$2000	Feb.	$2250
Oct.	$3250	March	$3000
Nov.	$3500	April	$2250
Dec.	$1500	May	$1750
Jan.	$3750	June	$2000



NAME _____

Practice

Perform the indicated operation.

1. $13.78 - 4.92$ → 8.86

2. $231 + 868 + 914$ → 2013

3. 5.8×6 → 34.8

4. $2\overline{)846}$ → 423

5. $7\overline{)420}$ → 60

6. 728×14 → 10 192

7. $1600 - 908$ → 692

8. $\$\ 2.07 + 18.21 + 49.65$ → $69.93

9. $8\overline{)712}$ → 89

10. 0.7×9 → 6.3

11. $(627 - 483) \times 26$ → 3744

12. $(897 - 147) \div 6$ → 125

13. $\$10.66 - \$7.82$ → $2.84

14. $284 + 815 + 76$ → 1175

15. $41.28 + 16.94$ → 58.22

16. 42×863 → 36 246

Solve. Show your work.

17. The large fuel tank holds 8235 L. The smaller one holds 1075 L. Together, how much do they hold? 9310 L

18. The total mass of the 4 hogs on the pickup truck is 772 kg. What is their average mass? 193 kg

19. The whole trip will be 1000 km. One day 274 km were covered. The next day 317 km were travelled. How many kilometres remain? 409

20. Suzy watches the baker prepare muffins. Each pan contains 48 muffins. The pans are stacked 18 high on racks. How many muffins are on the racks? 864

21. Six persons paint a house. They are paid $500. The supplies cost $50 and the rest they share equally. How much does each person get? $75

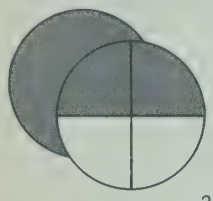
22. The first time the mouse went through the maze, it took 42.4 s. The tenth time through, it took 15.8 s. By how much had the mouse improved its time? 26.6 s

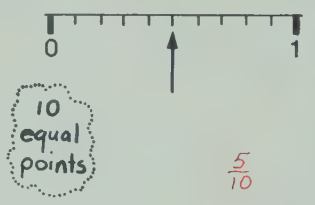
NAME

SPM4/U13/295

Equivalent Fractions for One-Half

Use $\frac{1}{2}$, $\frac{2}{4}$, or $\frac{5}{10}$ to write the numeral that matches each picture best.

1.  $1\frac{2}{4}$

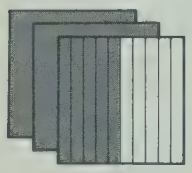
2. 

$\frac{5}{10}$

3.  $2\frac{1}{2}$

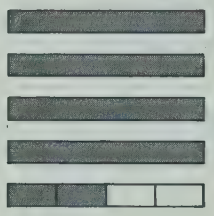
4. 

$6\frac{2}{4}$

5.  $2\frac{5}{10}$

6. 

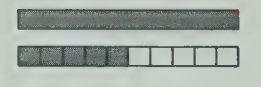
$3\frac{1}{2}$

7.  $4\frac{2}{4}$

8.  $5\frac{1}{2}$

9. 

$\frac{2}{4}$

10.  $1\frac{5}{10}$

11.  $7\frac{1}{2}$

12. 

$5\frac{5}{10}$

SPM4/U13/296

Decimal Names for One-Half

Write each of these as a decimal

showing tenths.

1. $3\frac{1}{2}$ 3.5
2. 3.50 3.5
3. $6\frac{1}{2}$ 6.5
4. 0.50 0.5
5. $\frac{1}{2}$ 0.5

showing hundredths.

6. $2\frac{1}{2}$ 2.50
7. 0.5 0.50
8. 1.5 1.50
9. $3\frac{1}{2}$ 3.50
10. $\frac{1}{2}$ 0.50

Write each of these using the fraction $\frac{1}{2}$.

11. 16.5 $16\frac{1}{2}$
12. 0.50 $\frac{1}{2}$
13. 4.5 $4\frac{1}{2}$
14. 1.50 $1\frac{1}{2}$
15. 9.50 $9\frac{1}{2}$

NAME

SPM4/U13/297

Fourths and Quarters

Complete each chart.

dollars	quarters	value
1. 1	2	$1.50

dollars	quarters	value
2. 2	1	$2.25

dollars	quarters	value
3. 0	3	$0.75

fraction (fourths)	decimal
4. $1\frac{2}{4}$	1.50

fraction (fourths)	decimal
5. $3\frac{3}{4}$	3.75

fraction (fourths)	decimal
6. $\frac{1}{4}$	0.25

dollars	quarters	value
7. 1	3	$1.75

dollars	quarters	value
8. ____	1	$0.25

dollars	quarters	value
9. 0	2	$0.50

dollars	quarters	value
10. 3	3	$3.75

dollars	quarters	value
11. 1	1	$1.25

dollars	quarters	value
12. 2	2	$2.50

fraction (fourths)	decimal
13. $2\frac{2}{4}$	2.50

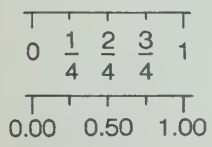
fraction (fourths)	decimal
14. $\frac{3}{4}$	0.75

fraction (fourths)	decimal
15. $4\frac{1}{4}$	4.25

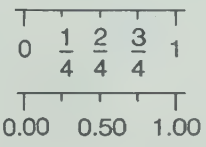
SPM4/U13/298-299

Equivalent Fractions and Decimals

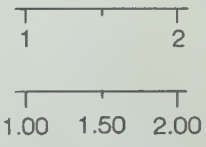
Write a decimal or fraction to complete each sentence.

1. 

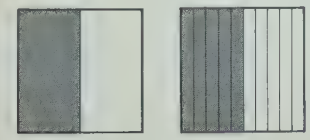
$\frac{2}{4}$ = 0.50

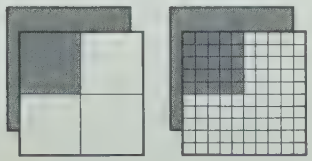
2. 

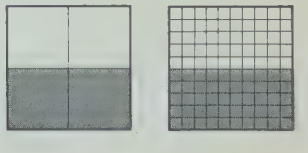
$\frac{1}{4}$ = 0.25

3. 

1.50 = $1\frac{1}{2}$

4. 
$\frac{1}{2}$ = 0.5

5. 
$1\frac{1}{4}$ = 1.25

6. 
$\frac{2}{4}$ = 0.50

7. $2\frac{3}{10}$ = 2.3

8. $1\frac{3}{4}$ = 1.75

9. 2.25 = $2\frac{1}{4}$

10. 0.75 = $\frac{3}{4}$

11. 6.50 = $6\frac{1}{2}$

12. 0.5 = $\frac{1}{2}$

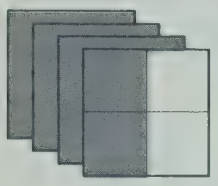
13. $4\frac{1}{4}$ = 4.25

14. 4.75 = $4\frac{3}{4}$

NAME _____

Practice

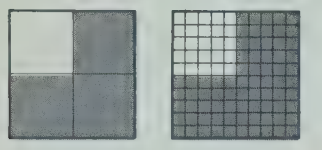
Use $\frac{1}{2}$, $\frac{2}{4}$, or $\frac{5}{10}$ to write the numeral that matches each picture best.

1.  $3\frac{2}{4}$

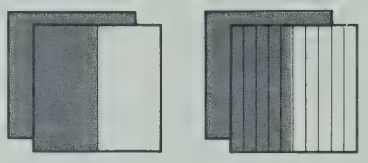
2. 

3.  $\frac{5}{10}$

Write the decimal that matches the picture and completes the sentence.

4. 

$\frac{3}{4}$ = 0.75

5. 

$1\frac{1}{2}$ = 1.5

Write each of these as a decimal showing tenths.

6. $3\frac{1}{2}$ 3.5
7. $\frac{3}{10}$ 0.3
8. $1\frac{6}{10}$ 1.6
9. $\frac{1}{2}$ 0.5

Write each of these as a decimal showing hundredths.

10. $4\frac{1}{2}$ 4.50
11. $1\frac{3}{4}$ 1.75
12. 2.5 2.50
13. $\frac{1}{4}$ 0.25

Write a fraction to complete each sentence.
Use fourths or one-half when possible.

14. 5.50 = $5\frac{1}{2}$
15. 3.25 = $3\frac{1}{4}$
16. 0.9 = $\frac{9}{10}$
17. 1.75 = $1\frac{3}{4}$

18. \$0.50 is $\frac{1}{2}$ the value of 1 dollar.

19. The value of 3 quarters is $\frac{3}{4}$ the value of 1 dollar.

Complete the chart.

	Bills and Coins	Value
20.	2 dollars and 3 quarters	\$2.75
21.	1 dollar and 2 quarters	\$1.50
22.	3 dollars and 1 quarter	\$3.25
23.	0 dollars and 3 quarters	\$0.75
24.	5 dollars and 2 quarters	\$5.50
25.	2 dollars and 1 quarter	\$2.25

NAME

SPM4/U13/300-301

Comparing and Ordering Fractions

Use > or < to make a true statement.

1. $\frac{2}{4} > \frac{1}{10}$ (0.50, 0.10)	2. $\frac{1}{2} < \frac{3}{4}$ (0.50, 0.75)	3. $\frac{1}{4} < \frac{1}{2}$	4. $\frac{6}{10} < \frac{9}{10}$

5. $\frac{6}{10} < \frac{3}{4}$ 6. $\frac{1}{2} < \frac{9}{10}$ 7. $\frac{2}{4} > \frac{2}{10}$ 8. $\frac{3}{4} > \frac{2}{4}$ 9. $\frac{5}{10} < \frac{3}{4}$

List in order from least to greatest.

10. $\frac{1}{2}, \frac{3}{4}, \frac{1}{4}, \frac{1}{10}$ $\frac{1}{10}, \frac{1}{4}, \frac{1}{2}, \frac{3}{4}$

11. $\frac{2}{4}, \frac{1}{10}, \frac{4}{10}, \frac{9}{10}$ $\frac{1}{10}, \frac{4}{10}, \frac{2}{4}, \frac{9}{10}$

12. $\frac{6}{10}, \frac{1}{2}, \frac{1}{4}, \frac{2}{10}$ $\frac{2}{10}, \frac{1}{4}, \frac{1}{2}, \frac{6}{10}$

13. $\frac{3}{4}, \frac{9}{10}, \frac{7}{10}, \frac{1}{2}$ $\frac{1}{2}, \frac{7}{10}, \frac{3}{4}, \frac{9}{10}$

SPM4/U13/302-303

Fraction Names for 1

Draw a shape for 1 Shapes will vary.

1. if □ is $\frac{1}{4}$.	2. if ▽ is $\frac{1}{4}$.	3. if □ is $\frac{1}{10}$.

4. if ⌓ is $\frac{1}{2}$. 5. if ◿ is $\frac{1}{4}$. 6. if △ is $\frac{1}{10}$.

7. if ▭ is $\frac{1}{4}$. 8. if △ is $\frac{1}{2}$. 9. if ◔ is $\frac{1}{4}$.

NAME

SPM4/U13/304-305

Adding Fractions

Add. Check by using decimals.

1. $1\frac{2}{10}$ (1.2)
   $3\frac{7}{10}$ (3.7)
   $4\frac{9}{10}$ (4.9)

2. $2\frac{1}{2}$ (2.5)
   $3\frac{1}{2}$ (3.5)
   6 (or $5\frac{2}{2}$)

3. $3\frac{2}{4}$
   $5\frac{1}{4}$
   $8\frac{3}{4}$

4. $2 + 2\frac{1}{4}$ $4\frac{1}{4}$

5. $\frac{1}{4}$
   $\frac{2}{4}$
   $\frac{3}{4}$

6. $1\frac{3}{10}$
   $4\frac{7}{10}$
   6 (or $5\frac{10}{10}$)

7. $5\frac{1}{2}$
   2
   $7\frac{1}{2}$

8. $2\frac{5}{10}$
   $4\frac{1}{10}$
   $6\frac{6}{10}$

9. $2\frac{1}{4}$
   $6\frac{1}{4}$
   $8\frac{2}{4}$ (or $8\frac{1}{2}$)

10. $6 + 1\frac{3}{4}$ $7\frac{3}{4}$

11. $8\frac{1}{10} + 4\frac{2}{10}$ $12\frac{3}{10}$

12. $\frac{1}{2} + \frac{1}{2}$ 1 (or $\frac{2}{2}$)

13. $7\frac{8}{10} + 3\frac{2}{10}$ 11 (or $10\frac{10}{10}$)

14. $2\frac{5}{10} + 1\frac{5}{10}$ 4 (or $3\frac{10}{10}$)

15. $4\frac{3}{4} + 3\frac{1}{4}$ 8 (or $7\frac{4}{4}$)

SPM4/U13/306-307

Subtracting Fractions

Subtract. Check by using decimals.

1. $6\frac{4}{10}$ (6.4)
   $3\frac{1}{10}$ (3.1)
   $3\frac{3}{10}$ (3.3)

2. 6 (6.0)
   $4\frac{3}{10}$ (4.3)
   $1\frac{7}{10}$

3. $6\frac{2}{10}$
   $1\frac{1}{10}$
   $5\frac{1}{10}$

4. $5\frac{2}{4} - 1\frac{1}{4}$ $4\frac{1}{4}$

5. 6
   $5\frac{3}{4}$
   $\frac{1}{4}$

6. $8\frac{8}{10}$
   $3\frac{3}{10}$
   $5\frac{5}{10}$ (or $5\frac{1}{2}$)

7. 2
   $\frac{6}{10}$
   $1\frac{4}{10}$

8. $3\frac{3}{4}$
   1
   $2\frac{3}{4}$

9. $2\frac{1}{2}$
   $1\frac{1}{2}$
   1

10. $5\frac{9}{10} - 4\frac{1}{10}$ $1\frac{8}{10}$

11. $6\frac{3}{4} - 2\frac{1}{4}$ $4\frac{2}{4}$ (or $4\frac{1}{2}$)

12. $6 - 1\frac{1}{4}$ $4\frac{3}{4}$

13. $4\frac{3}{10} - 3$ $1\frac{3}{10}$

14. $4 - \frac{1}{2}$ $3\frac{1}{2}$

15. $7 - 5\frac{5}{10}$ $1\frac{5}{10}$ (or $1\frac{1}{2}$)

NAME _____

Practice

Perform the indicated operation.

1. $3\frac{1}{4} + 2\frac{2}{4}$ = $5\frac{3}{4}$

2. $\$4.37 \times 8$ = $\$34.96$

3. $7\overline{)357}$ = 51

4. $4\frac{7}{10} - 1\frac{3}{10}$ = $3\frac{4}{10}$

5. $63.21 + 19.48$ = 82.69

6. 3.9×5 = 19.5

7. $5 - 3\frac{1}{2}$ = $1\frac{1}{2}$

8. $3\overline{)\$915}$ = $\$305$

9. 462×33 = 15 246

10. $\$14.86 - 7.93$ = $\$6.93$

11. $3\frac{3}{10} + 6\frac{2}{10}$ = $9\frac{5}{10}$

12. $279 \div 9$ = 31

13. $406 - 27$ = 379

14. $(314 - 281) \times 35$ = 1155

15. $14 \times \$8.06$ = $\$112.84$

16. $614 + 28 + 1914$ = 2556

Solve. Show your work.

17. Mr. Derrin's garden is 8 m wide and 14 m long. How many metres of fence will be needed to go around it? 44

18. A tweed material Mrs. Brun likes costs $12 per square metre. She needs 2.6 m^2. How much will this cost? $31.20

19. Mill Village has 3 mail routes. One has 128 boxes. Another has 273 boxes. The third has 185 boxes. Altogether, how many mail boxes are there in Mill Village? 586

20. Pauline is deciding between a 10-speed and a 5-speed bicycle. The 10-speed costs $136.65. The 5-speed is $41.95 less. How much does the 5-speed bicycle cost? $94.70

21. 645 copies of the school newspaper are to be divided equally among 3 locations. How many will each have? 215

22. The feedstore has a stack of 180 bags of feed. Each bag holds 25 kg. How many kilograms of feed are there in all? 4500 kg

NAME _____

Checking Up -- Addition, Subtraction, Multiplication

Perform the indicated operation.

1. 53 + 24 = 77	2. 957 − 642 = 315	3. 60 × 3 = 180	4. 63 − 38 = 25	5. 36 × 8 = 288
6. 467 + 371 = 838	7. 670 − 276 = 394	8. 85 × 5 = 425	9. 359 + 168 = 527	10. 900 − 472 = 428
11. 400 × 9 = 3600	12. 1274 + 1789 = 3063	13. 748 × 7 = 5236	14. 6614 − 1936 = 4678	15. 27 × 60 = 1620
16. $6.84 + 5.17 = $12.01	17. $2.85 × 4 = $11.40	18. $17.32 − 8.37 = $ 8.95	19. $46.00 − 36.84 = $ 9.16	20. $28.57 + 44.96 = $73.53
21. 47 × 58 = 2726	22. 39.5 + 57.5 = 97.0	23. 1425 + 938 + 2647 = 5010	24. 20.2 − 1.9 = 18.3	25. 297 × 39 = 11 583

Solve. Show your work.

26. Hayley's Store ordered 75 cartons of sugar with 8 bags in each carton. How many bags of sugar did it order? 600

27. The Fire Department reported 2032 calls for the year, of which 475 were false alarms. How many calls were not false alarms? 1557

28. Meredith paid $32.50, $26.75, and $19.45 to the three part-time helpers. How much did she pay the part-time helpers in all? $78.70

29. The building plans show 24 groups of new houses with 16 houses in each group. How many new houses do the building plans show? 384

NAME _____

Checking Up -- Computation

Perform the indicated operation.

1. $513 + 145 = 658$

2. $84 \times 6 = 504$

3. $3\overline{)639} = 213$

4. $698 - 462 = 236$

5. $748 \times 3 = 2244$

6. $3864 + 769 = 4633$

7. $4\overline{)92} = 23$

8. $25.9 \times 8 = 207.2$

9. $\$67.59 + 24.89 = \$92.48$

10. $2000 - 1571 = 429$

11. $96 \times 70 = 6720$

12. $336.2 - 86.9 = 249.3$

13. $\$6.98 \times 5 = \$34.90$

14. $7\overline{)252} = 36$

15. $75 \times 94 = 7050$

16. $\$90.63 - \$53.96 = \$36.67$

17. $162 \div 6 = 27$

18. $6 \times 6 \times 7 = 252$

19. $528 \div 8 = 66$

20. $74 \times 375 = 27\,750$

21. $420.7 + 82.3 + 99.2 = 602.2$

Solve. Show your work.

22. Phillip paid the $12.99 bill with a $20 bill. How much change did he receive? $\$7.01$

23. Laurie placed 125 apples in 5 bags with the same number in each bag. How many were in each bag? 25

24. Ted filled 38 cartons with two dozen eggs each. How many eggs were in the cartons? 912

25. The grocery items cost $2.89, $0.77, and $3.89. How much did the three items cost in all? $\$7.55$

NAME

Checking Up -- Numeration

Write in standard form.

1. sixty-nine thousand forty-one 69 041
2. seven and five-eighths $7\frac{5}{8}$
3. 70 000 + 800 + 20 70 820
4. forty-eight and seventy-five hundredths 48.75
5. three-fifths $\frac{3}{5}$
6. two and eight-hundredths 2.08

Use >, <, or = to make a true statement.

7. 77 535 $>$ 77 355
8. 206 370 $<$ 263 070
9. 689 768 $<$ 689 786
10. 4.3 $=$ 4.30
11. 17.08 $<$ 17.74
12. 29.3 $>$ 29.2
13. $\frac{1}{2} < \frac{2}{3}$
14. $1 = \frac{5}{5}$
15. $\frac{3}{4} <$ 0.76

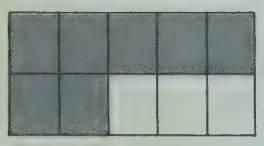
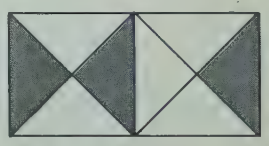
List in order from least to greatest.

16. 3.85, 3.08, 3.50, 38.5, 3.58, 3.80 3.08, 3.50, 3.58, 3.80, 3.85, 38.5
17. $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{2}{3}, \frac{3}{4}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}$ $\frac{1}{5}, \frac{1}{4}, \frac{1}{3}, \frac{2}{5}, \frac{1}{2}, \frac{3}{5}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}$
18. 108 909, 180 980, 108 908, 109 801, 108 918, 108 009
    108 009, 108 908, 108 909, 108 918, 109 801, 180 980

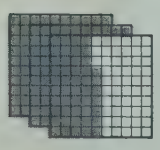
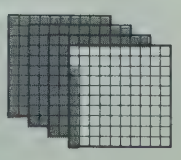
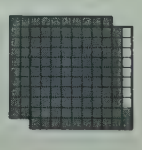
Round to the

19. nearest ten: 3675 3680
20. nearest thousand: 29 704 30 000
21. nearest hundred: 6845 6800
22. nearest whole number: 23.18 23

Write a fraction to show how much is shaded.

23.  $\frac{7}{10}$
24.  $\frac{2}{5}$
25.  $\frac{3}{8}$

Write a decimal to show how much is shaded.

26.  2.47
27.  3.08
28.  1.92

NAME _____

Checking Up -- Measurement

Complete.

1. 2 km = 2000 m
2. 128 cm = 1 m 28 cm
3. 2 L 89 mL = 2089 mL
4. 6280 mL = 6 L 280 mL
5. 3000 g = 3 kg
6. 1 kg 14 g = 1014 g
7. 4 m = 400 cm
8. 1 h 10 min = 70 min
9. 4 min 20 s = 260 s
10. 1 dollar 12 dimes are worth $2.20.
11. 3 dollars 5 dimes 17 pennies are worth $3.67.
12. 2 dollars 18 dimes 15 pennies are worth $3.95.

Which unit of length, the millimetre, the centimetre, the metre, or the kilometre is best for measuring

13. the length of a newborn baby? centimetre
14. the width of a baby's fingernail? millimetre
15. the distance from your home to the centre of town? kilometre
16. the width of a road? metre

Choose the best estimate for

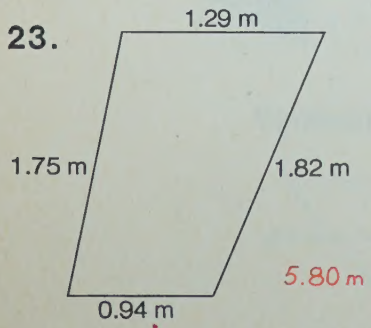
17. the mass of a pigeon.
    1 g, 1 kg, 10 kg — 1 kg
18. the width of a dime.
    2 mm, 2 cm, 2 m — 2 cm
19. the capacity of a thimble.
    2 L, 20 mL, 2 mL — 2 mL

Complete.

20. The mass of my pencil is about 15 g.
21. The school doorway is about 3 m tall.
22. The orange juice pitcher holds about 2 L of juice.

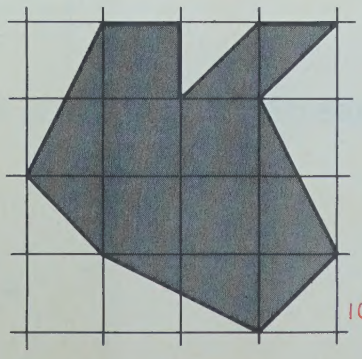
Find the perimeter.

23.



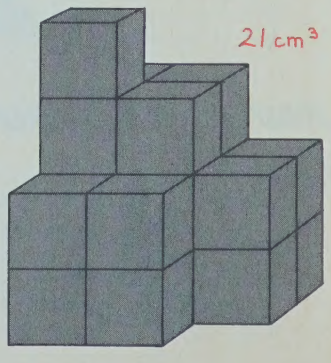
Give the area in square centimetres.

24.



Give the volume in cubic centimetres.

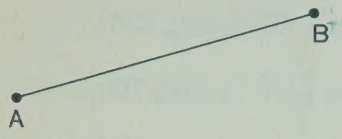
25.



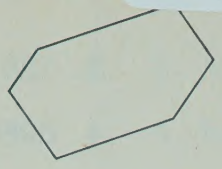
NAME _____

Checking Up -- Geometry

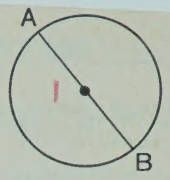
Complete each sentence.

1. 

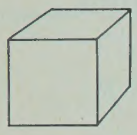
$\overline{AB}$ is a line segment.

2. 

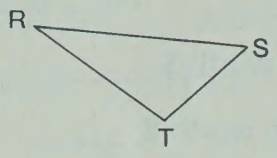
This polygon is a hexagon.

3. 

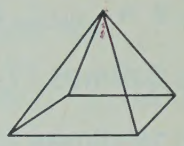
$\overline{AB}$ is a diameter of the circle.

4. 

A cube has 6 faces. Each has the shape of a square.

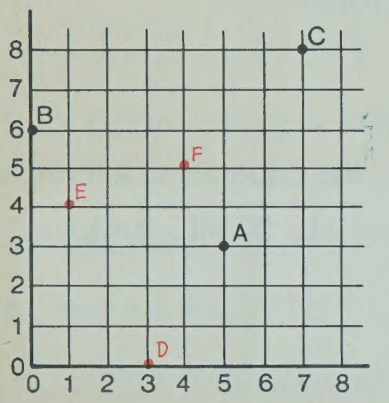
5. 

A name for this triangle is triangle RST.

6. 

This pyramid has 8 edges and 5 vertices.

Use the grid for Exercises 7-12. Write a number pair for

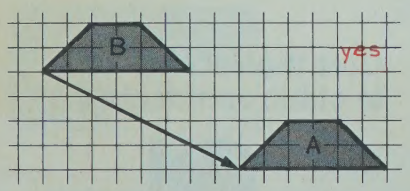


7. point A. (5,3)
8. point B. (0,6)
9. point C. (7,8)

Show on the grid the point named by

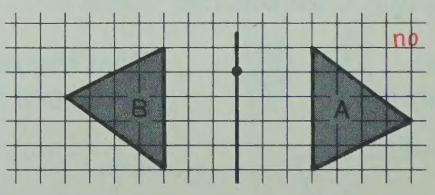
10. (3, 0). Call it D.
11. (1, 4). Call it E.
12. (4, 5). Call it F.

Is shape A the slide image of shape B?

13. 

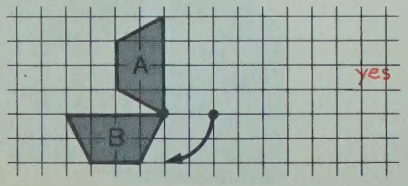
yes

Is shape A the flip image of shape B?

14. 

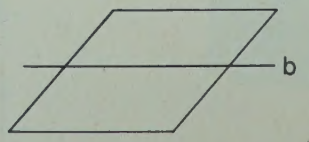
no

Is shape A the turn image of shape B?

15. 

yes

Is line b a line of symmetry?

16. 

no

For a lesson like the one shown, have students who exhibit difficulty in understanding the material in the textbook proceed through the *diagnostic/instruction box* using the *completely-worked example* for review. Go over the example with students individually. Have them verbalize their understanding of the process involved. Then have them proceed through a solution of the *partially-worked example* while you watch and listen. Check their understanding by having them complete the *decision exercises* in the diagnostic/instruction box on their own. Use their performance on these exercises as a basis for deciding whether they have grasped the required concept or skill to continue on the remaining exercises, or whether more help is necessary such as that provided in the *Starting Points in Mathematics Reteaching Blackline Masters*.

One diagnostic/instruction box is provided with every lesson that relates to a textbook lesson. A completely-worked example is a feature in most of these boxes. When the task requires a rather "large" response, however, such as in the creation of a graph, the first exercise may be only partially complete. After discussing the work shown for such an exercise, have the students complete the exercise for a check of their understanding while you watch and listen.

For some lessons, such as those which develop concepts rather than skills, there may be no partially-worked example following the first completed example. For such lessons the student simply proceeds to the other exercises in the diagnostic/instruction box following your initial review with them of the worked example and their verbalization of the concepts involved. For these exercises, you may wish to have them justify their responses verbally as they proceed while you listen and watch.

Space for student answers is provided after or below each exercise. This positioning is usually suggested by what is shown in the worked examples.

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